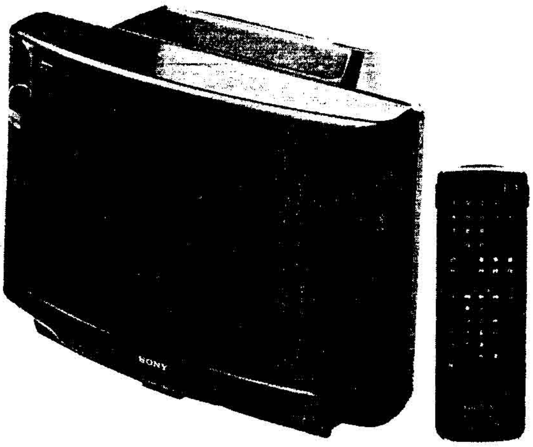
KV-C2571D/C2971D

RM-816

SERVICE MANUAL

AEP Model

KV-C2571D
Chassis No. SCC-F07G-A
KV-C2971D
Chassis No. SCC-F07H-A



AE-1C CHASSIS

MODELS OF THE SAME SERIES	
KV-C2571D/C2971D	KV-X2551D/X2951D
KV-C2161D/C2561D/C2961D	
KV-C2551D/C2951D	

SPECIFICATIONS

【KV-C2571D/KV-C2971D】

Television system	B/G/H
Color system	PAL, SECAM, NTSC3.58, NTSC4.43
Stereo system	GERMAN stereo
Channel coverage	VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S 01-S 05, M 1-M 10, U 1-U 10
Picture tube	HI-Black Trinitron tube (KV-C 2571 D) Approx. 63.5 cm (25 inches) (Approx. 59 cm picture measured diagonally) 110 ° degree deflection (KV-C 2971 D) Approx. 72.4 cm (29 inches) (Approx. 68 cm picture measured diagonally) 110 ° degree deflection

-Continued on next page-

MICROFILM

TRINITRON® COLOR TV

SONY®

Inputs / Outputs Terminals

REAR

⊖1 21 pin Euro connector (CENELEC standard)	-Inputs for audio and video signals -Inputs for RGB -Outputs of TV video and audio signals
⊖2/⊖4 21-pin Euro connector	-Inputs for audio and video signals -Inputs for S-video -Outputs for video and audio signals (selectable)
⊖ Audio output(vartable)	-phono jacks

FRONT

W/G/W/G 🔈 woofer out 2-pin DIN
⊖ Video input phono jack
⊖ Audio inputs (L,R) phono jacks
S-video Inputs-4 pin DIN
Headphone jack : stereo mini jack

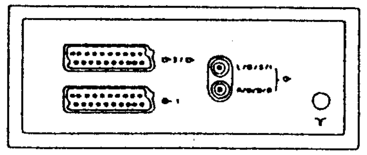
Sound output	15 W + 15 W + 30 W (Woofer)
Power consumption	103 Wh (KV-C2571 D) 110 Wh (KV-C2971 D)
Dimensions	Approx. 720×515×480 mm (w/h/d) (KV-C2571 D) Approx. 814×576×508 mm (w/h/d) (KV-C2971 D)
Weight	Approx. 42 kg (KV-C2571 D) Approx. 56 kg (KV-C2971 D
Supplied accessories	RM-816 Remote Commander (1) IEC designation R6 batteries (2) Woofer

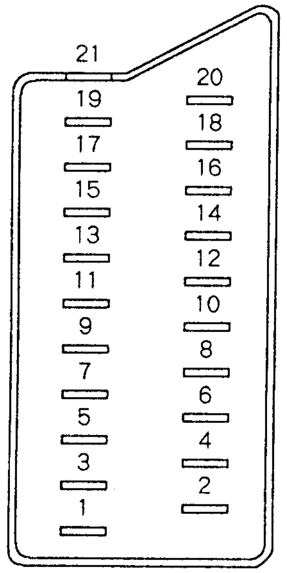
【RM-816】

Remote control system	infrared control
Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Dimentions	Approx. 75×221×23mm(w/h/d)
Weight	Approx. 230g (including batters)
Accessories supplied	IEC designation R6 batteries (2)

Design and specifications are subject to change without notice.

21 pin connector (⊖1 ⊖2/⊖4)





Pin No	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
2	○	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
3	○	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
7	○	●	●	Blue input	0.7 ± 3dB, 75ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 – 12V) : Part mode Low state (0 – 2V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7V ± 3dB, 75ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	–	–	Red input	0.7V ± 3dB, 75ohms, positive
	–	○	○	(S signal) croma input	0.3V ± 3dB, 75ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 – 3V) Low state (0 – 0.4V) Input impedance : 75ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, +
20	○	–	–	Video input	1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, +
	–	○	○	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, + 10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ●unconnected (open) * at 20Hz – 20kHz

4 Pin connector (⊖)

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V $^{-3}_{+10}$ dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

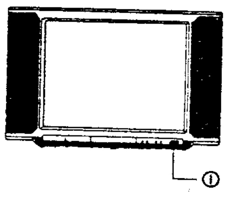
SAFETY-RELATED COMPONENT WARNING !!

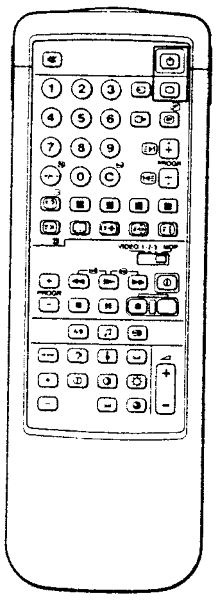
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

1-1. SWITCHING ON/OFF

After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).





How to turn the TV on

Action	Result
Press ① on the TV.	The TV will turn on. **Note:** If the screen remains blank, the TV may be in the standby mode. Press ○ or any number button on the commander to switch it on.

How to turn the TV off

A Temporarily	
Press ⏻ to enter standby mode.	The TV will be in standby. To return to the TV mode press ○
B Completely	
Press ① on the TV.	The TV will turn off.

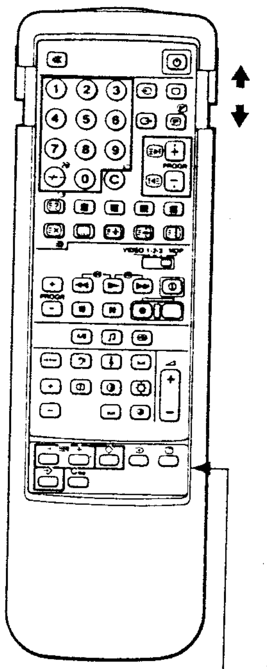
1-2. PRESETTING

After you have installed this TV you need to preset TV channels.

TV stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers on this TV before you can watch the TV programmes.

There are 60 spaces for storing these channels.

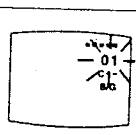
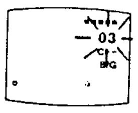
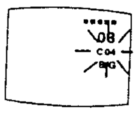
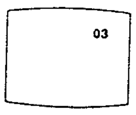
Slide open the full function side of the remote commander to reveal preset buttons.

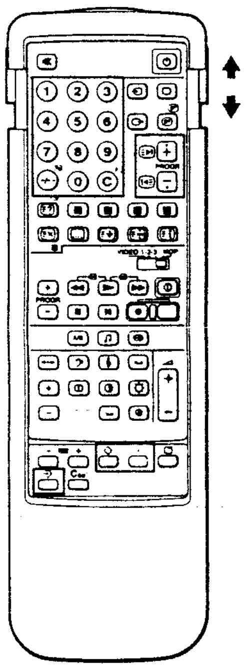


Note: These buttons should be used in preset mode only.

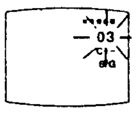
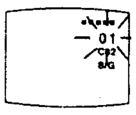
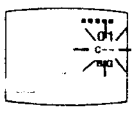
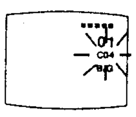
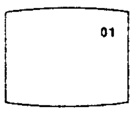
How to preset channels automatically

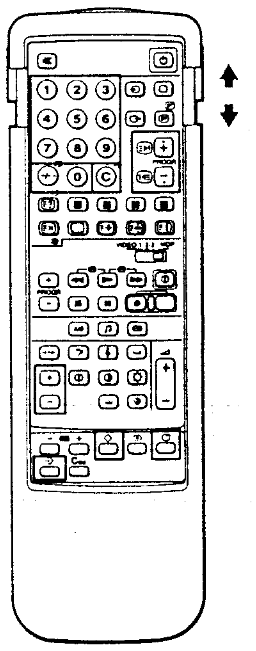
If you are unfamiliar with the channel numbers of the stations you wish to preset, use "How to preset channels automatically". If you are familiar with the channel numbers refer to "How to preset T.V. channels directly".

Action	Result
1 Press ⇾ to enter the preset mode.	 The programme number will start flashing.
2 Press PROGR + or - or the number buttons to select the programme number to which you want to preset channels. **Note** To select a double-digit number, use the -/-- button. For example, if you want to choose 23, press -/--, 2, and then 3.	 The programme number changes
3 Press ⊞ + or - once to search forward or backward for channels.	 When a channel is tuned in, the search will stop. **Note** If you want to skip a channel, press ⊞ + or ⊞ -.
4 Press ◇ if you want to store the channel which is tuned in. Press ⇾ to exit preset mode without storing.	 The channel is now stored and you have returned to TV mode.
5 Repeat steps 1 to 4 to store the other channels.	



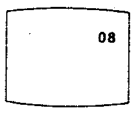
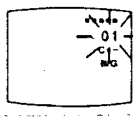
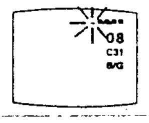
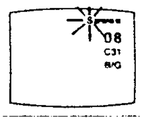
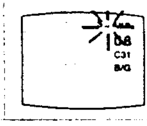
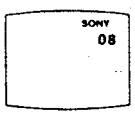
How to preset channels directly

Action	Result
1 Press ⇾ to enter the preset mode.	 The programme number will start flashing.
2 Press PROGR +/– or the number buttons to select the programme number on which you want to preset a channel. **Note** To select a double-digit number, use the -/-- button. For example, if you want to choose 23, press -/--, 2, and then 3.	 The programme number changes.
3 Press C. If you want to select a cable channel, press C twice.	 The indication "C--" ("S--" for a cable channel) starts flashing on the display.
4 Select the channel number with two digits (e.g. 04) by pressing the number buttons. **Note** Press the second number within 5 seconds after the first one, otherwise the operation will be cancelled.	 The channel number changes. **Note** If you have made a mistake the letter "X" will appear. Repeat step 4 again.
5 Press ◇ to store the channel which is tuned in. Press ⇾ to exit the preset mode without storing.	 The channel is now stored and you have returned to TV mode.
Repeat steps 1 to 5 to store the other channels.	



How to Name a Station

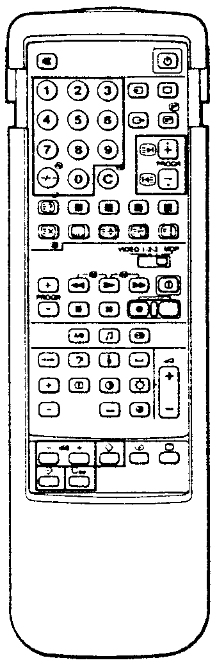
You can use up to five characters to "name" a channel or station (i.e. BBC1).

Action	Result
1 Select a programme number you want to name by pressing the PROGR +/– or the number buttons	 The selected programme number will appear.
2 Press ⇾.	 The programme number starts flashing.
3 Press ▢.	 The first column of the station name indication will start flashing.
4 Press + or – to select a letter in the alphabet, a number, or a blank space.	 The letters of the alphabet, numbers and the space ("–") will appear sequentially.
5 Press ▢.	 The first character is now set and the second column will start flashing.
6 Repeat steps 4 and 5 to set each letter.	
7 Press ◇.	 The channel name is now stored and you have returned to TV mode.

How to tune in a channel temporarily

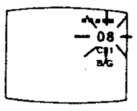
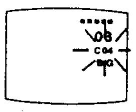
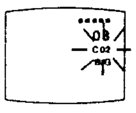
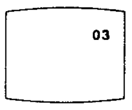
You can tune a channel in temporarily, if it has not been preset.

Action	Result
1 Press C. For cable channels, press C twice.	The indication "C" ("S" for cable channels) appears on the screen.
2 Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4.)	The channel is received, but it is not stored to any programme number.



How to Skip Programmes

Using the PROGR +/– buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.

Action	Result
1 Press ⇾ to enter the preset mode.	 The programme number will start flashing.
2 Select the programme number that you want to skip by pressing PROGR +/– or the number buttons.	 The programme number changes.
3 Press Coo.	 The lowest channel number appears under the programme number.
4 Press ◇.	 The channel is now stored and you have returned to TV mode.
Repeat steps 1 to 4 to skip other programme numbers.	

How to Fine Tune Manually

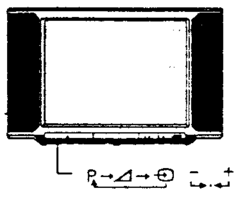
If the picture is distorted, you can fine tune the channel manually.

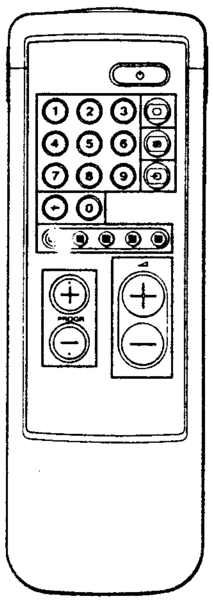
Action	Result
Press ⊞ + or – repeatedly until the picture looks normal.	The indication ← F → appears on the screen.
Press ⇾ to enter the preset mode.	The programme number starts flashing.
Press ◇.	The fine tuning is stored.

Note: The automatic fine tuning will function again when you preset the channel once more.

1-3. BASIC TV OPERATION

Note: Press ⊥ on door to open.

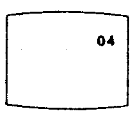




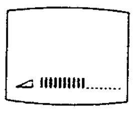
This section introduces you to the basic control functions which are available on the simple side of the remote commander.

How to Select Programmes

Before you can select programmes make sure that you have preset channels.

Action	Result
Press PROGR +/– or the number buttons. To select a double-digit number, use the -/-- button. For example, if you want to choose 23, press -/--, 2, and then 3.	 The selected programme is displayed.

How to Adjust the Volume

Action	Result
Press ⊿ + or –.	 The volume markers will appear.

How to Use Additional Functions

How to operate with the buttons on the TV

You can also select programmes and adjust the volume using the P→⊿→⊕ and →•← +/– buttons on the front of the TV.
For operation, first press the P→⊿→⊕ button repeatedly so that the P (for programme) or ⊿ (for volume) indication appears on the screen, and then adjust with the →•← +/– buttons.

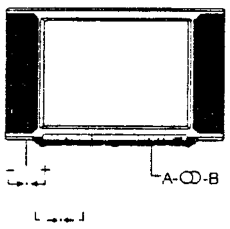
How to view the teletext

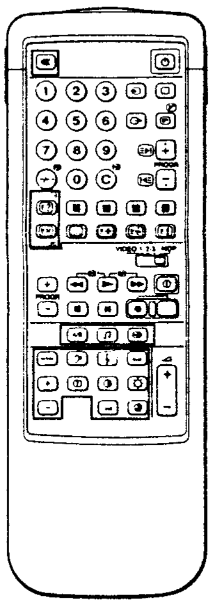
Press ⊜. To return to the TV mode, press ▢.
For details about the teletext operation.

How to view the video input picture

Press ⊕ To return to the TV mode, press ▢. For further details.

1-4. ADVANCED TV OPERATION





This section shows you how to use convenient features and how to adjust the picture and sound to your taste.
Use the full-function side of the Remote Commander.

How to use on-screen display and special sound features

You can enjoy the following convenient features.

How to	Action	To resume normal picture/sound
Display on-screen indications	Press ⊖	Indications disappear after some seconds
Display programme numbers	Press ⊖ twice	Press ⊖ twice again.
Mute the sound	Press 🔇.	Press 🔇 again.
Select a language in bilingual programmes.	Press A/B. The selected mode of the A-CD-B indicator on the TV lights up.	Press A/B.
Set the sound to music listening position	Press ♫.	Press ♫ again.
Use the space sound (special acoustic effect)	Press ⊕	Press ⊕ again.
Request the time	Press ▢.	Press ▢ again.

How to adjust the picture and sound

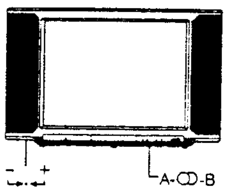
Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps.

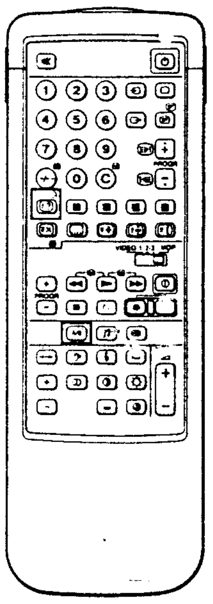
For picture adjustment

To Adjust:	Press:	Then:	Result: (+ ⟷ –)
Picture:			
Colour Intensity	◕	+ –	More ⟷ Less
Picture Contrast	◑		More ⟷ Less
Brightness	☼		Bright ⟷ Dark
Hue (for NTSC only)	♕		Reddish ⟷ Greenisl.
			Sharp ⟷ Soft
Sound:			
Bass	𝄢	+ –	More ⟷ Less
Treble	𝄞		More ⟷ Less
Balance	⋈		More Right/More Left

To reset the picture and sound to factory set levels press →·←.

On the set:
Press →·← +/– buttons simultaneously.





How to select a NICAM broadcast

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, the ⋈ symbol appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the ⋈ symbol appears. To check if the channel you are watching is receiving Nicam, press the on screen display button ⊖ on the full function side of the remote commander.

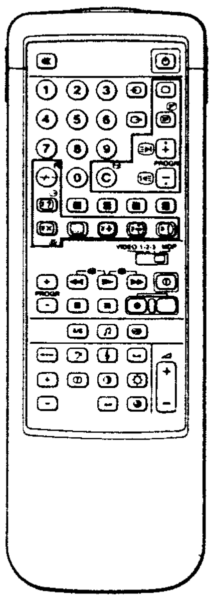
How to select the sound of your choice

Nicam programmes can be broadcast in three ways. You may select the sound you want to hear in each of these, by pressing the ⊜ button on the full function side of the remote commander.

Nicam service being broadcast	Action	The sound you hear	Indication on the TV A⊂⊃B	
Stereo		Stereo	☼	☼
	Press A/B	Normal	▭	▭
	Press A/B again to return to stereo			
Mono		Mono	☼	▭
	Press A/B	Normal	▭	▭
	Press A/B again to return to Nicam mono.			
Bilingual		Language A	☼	▭
	Press A/B	Language B	▭	☼
	Press A/B	Normally broadcast language	▭	▭
	Press A/B again to return to language A			

* Depending on availability of service.

1-5. TELETEXT OPERATION



TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the full side of the Remote Commander.
With the simple side of the Remote Commander, only the basic operation is possible.

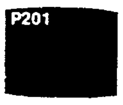
How to View the Teletext

Action	Result
1 Select the channel which carries the teletext service you wish to see.	The channel changes on the screen.
2 Press ⊜.	Teletext will appear. If the teletext signal is not broadcast, then p100 is displayed.
3 Input three digits for the page number using the number buttons. **Note** If you make a mistake, type in any three digits, then re-enter the correct page number.	The numbers are entered on the screen. The requested page will appear in a few seconds.
To return to the TV mode. Press ▢. **To change the teletext channels** First press ▢ to return to the TV mode, then repeat steps 1 to 3.	

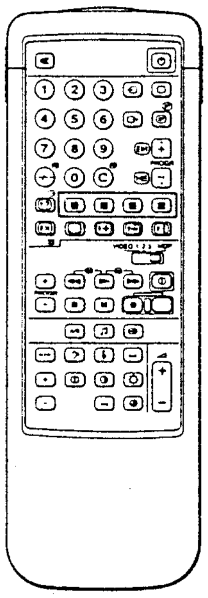
Note
If the signal of the TV channel is weak, teletext errors may often occur.

How to Use the Advanced Features of Teletext

How to	Action	Result (On-screen display)
Request the index page.	Press ⓘ (INDEX).	The index page appears.
Request the subtitle page (p888).	Press ▢.	The subtitle page is displayed (p888).
Access the next or preceding page.	Press ◫ (PAGE +) or ◫ (PAGE –).	The next or preceding page appears.

How to	Action	Result
Superimpose the teletext display on the TV programme.	Press ⊜ once if you are in text mode, or press ⊜ twice if in TV mode. To return to the normal teletext display press ⊜ again.	The teletext displays are superimposed on the TV programmes.
Prevent a teletext page from being updated or changed.	Press ⊞ (HOLD). To resume normal teletext reception, press ⊜ (TEXT/MIX).	The HOLD symbol (⊞) appears on the screen and the chosen sub-page is held until you cancel.
Enlarge the teletext display.	Press ⊕ once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal display.	The upper half is enlarged.
Reveal concealed information (e.g. answers to a quiz).	Press ⍰ (REVEAL). Press again to conceal the information.	The information is revealed.
Watch the TV programme while waiting for a requested page to be displayed.	1. Request a new page.	The numbers are entered.
	2. Press ⊠ (TEXT CL).	The TV program is displayed, and the requested page number and other teletext data appear at the top of the screen.
	3. When the requested page has been captured, the page number remains and the other data disappears.	
	4. Press ⊜ to view this page.	The requested page is displayed.
Have a requested page displayed at a pre-determined time.	1. Request a desired page.	The requested page is displayed.
	2. Press ⊚ (TP ON).	"T*****" appears at the bottom of the screen.
	3. Enter the time you want to have the page displayed with four digits using the number buttons. (For example, enter 0730 for 7:30 AM.)	The time is entered on the screen.
	4. Press ⊠ (TEXT CL) to watch the TV programme until the requested time.	At the requested time, the page number will be displayed at the top of the screen, to view this page, press ⊜.
	To cancel the request Display the teletext page, then press ⊗ (TP OFF).	The request is cancelled. To resume TV mode press ▢.

Some of the features may not be available depending on the Teletext service.



How to use the FASTEXT Feature

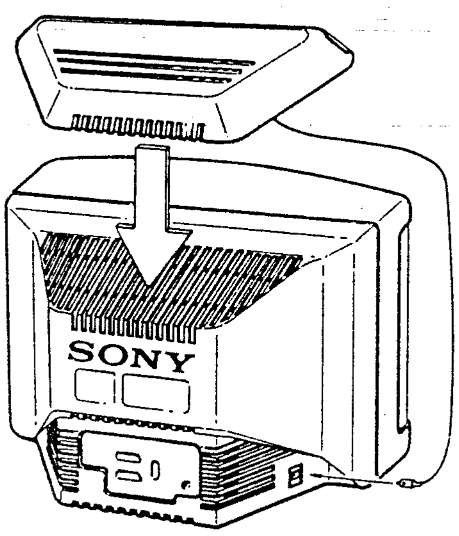
FASTEXT feature allows you to access pages quickly with one key operation.
When a FASTEXT page is broadcast, a colour coded menu appears at the bottom of the screen. Each coloured prompt corresponds to the coloured buttons on either side of your Remote Commander.

Operation

Action	Result
Press one of the coloured buttons which corresponds to the coloured prompt on the teletext.	The selected teletext page appears.

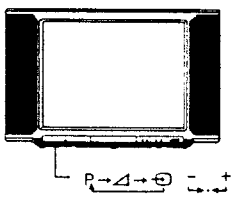
Note
Correct FASTEXT operation depends on the necessary signals sent from the TV station.

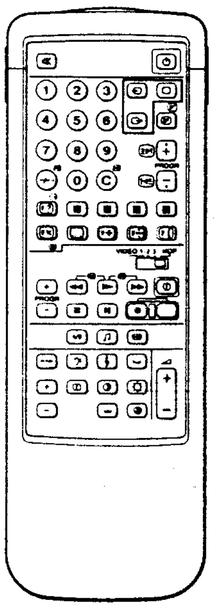
1-6. CONNECTION OF THE WOOFER



Place the woofer on the TV set and plug the connector in the side terminal.

1-7. OPTIONAL CONNECTIONS/OPERATIONS

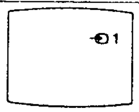




How to view the video input picture

You can view the picture of video equipment connected to the input terminals by selecting the input mode.

Operation

Action	Result
Press ⇥ repeatedly to select the desired input.	 Symbol for the selected input appears. (See the table below.)
To return to the TV mode, press the ▢ button.	

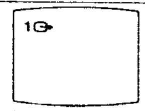
Input modes

Symbol	Result
⇥1	Audio/video input through the ⊛ connector.
⊛	RGB input through the ⊛ connector.
⇥2	Audio/video input through the ↦ 2/-Ⓢ connector.
-Ⓢ 2	S video input (from a VTR equipped with an S video output) through the ↦ 2/-Ⓢ connector.
⇥3	Audio/video input through ⇥ and ⇥ jacks on the front.
You can also select the input mode using the P →⊿→ ⇥ button on the TV. In this case, first select ⇥ and then press +/– buttons to select the input.	

How to select the Output

The ↦ 2/-Ⓢ connector outputs four kinds of audio/video signals. You have to select one of them as follows.

Operation

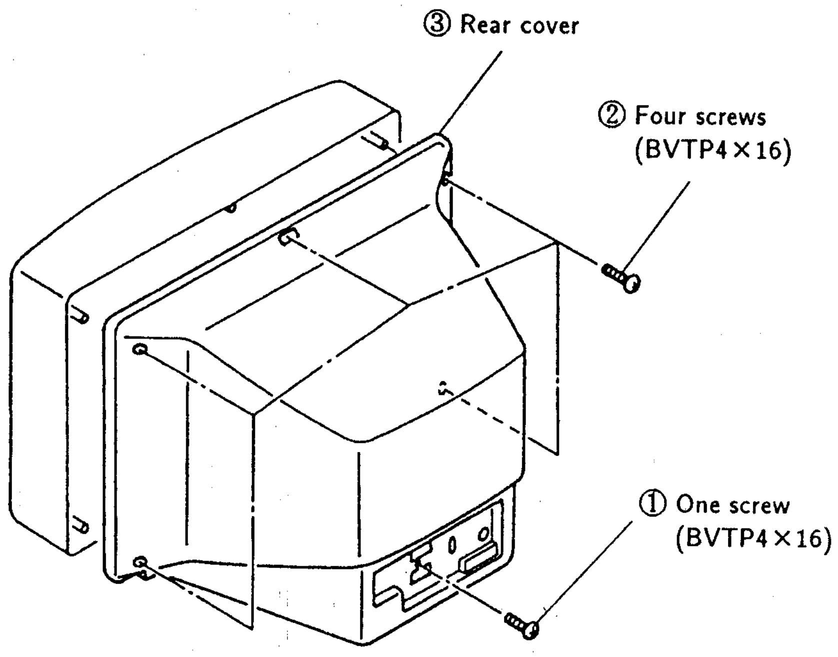
Action	Result
Press ↦ repeatedly to select the desired input.	 Symbol for the selected output appears. (See the table below.)

Output modes

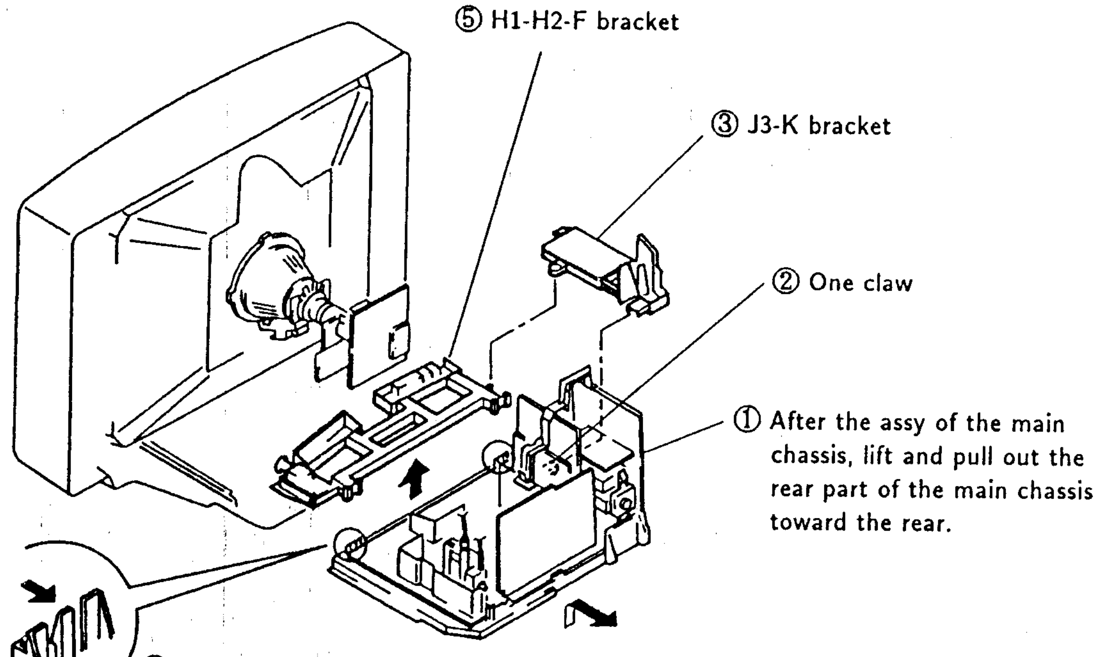
Symbol	Output from
1 ↦	The audio/video signal from the ⊛ 1 connector
2 ↦	The audio/video signal from the ↦ 2/-Ⓢ connector
3 ↦	The audio/video signal from the ⇥ ⇥ connectors.
TV ↦	The audio/video signal from the ┬ aerial terminal.

SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL


③ Rear cover
② Four screws
(BVTP4×16)
① One screw
(BVTP4×16)

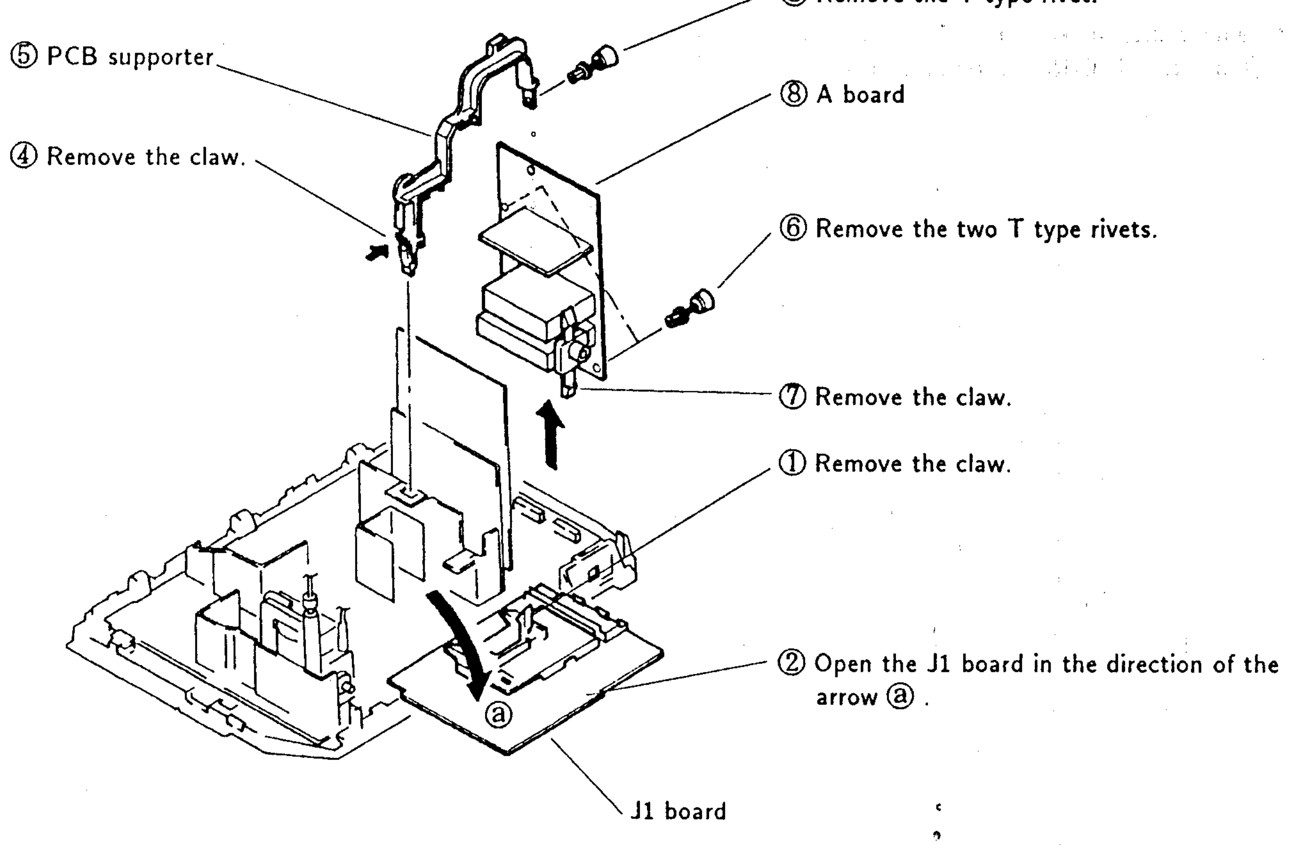
2-2. CHASSIS ASSY REMOVAL


⑤ H1-H2-F bracket
③ J3-K bracket
② One claw

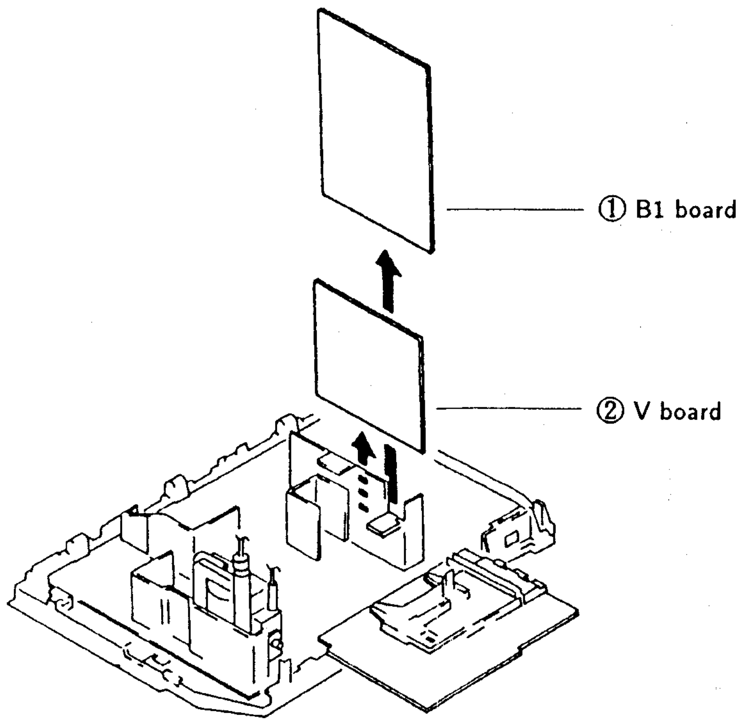
① After the assy of the main chassis, lift and pull out the rear part of the main chassis toward the rear.

④ Push the two claws of the main chassis in the direction of arrow and remove the H1-H2-F bracket upwards.

2-3. A AND J1 BOARDS REMOVAL


③ Remove the T type rivet.
⑤ PCB supporter
⑧ A board
④ Remove the claw.
⑥ Remove the two T type rivets.
⑦ Remove the claw.
① Remove the claw.
ⓐ
② Open the J1 board in the direction of the arrow ⓐ .
J1 board

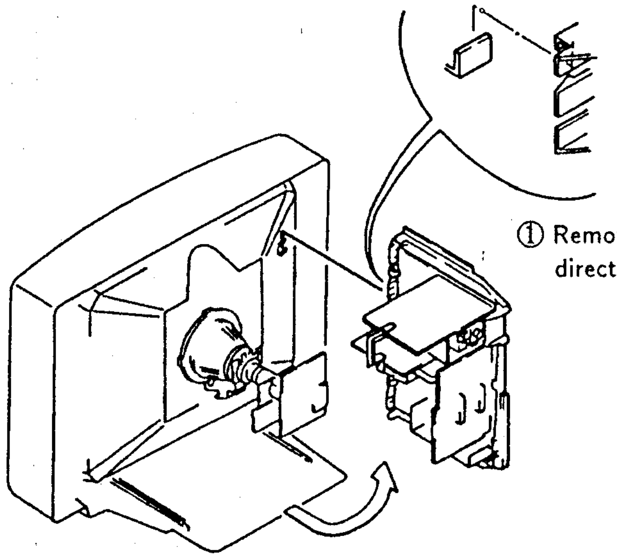
2-4. B1 AND V BOARDS REMOVAL


① B1 board
② V board

Note : 10 pin extension cable (S-0945-001-0)

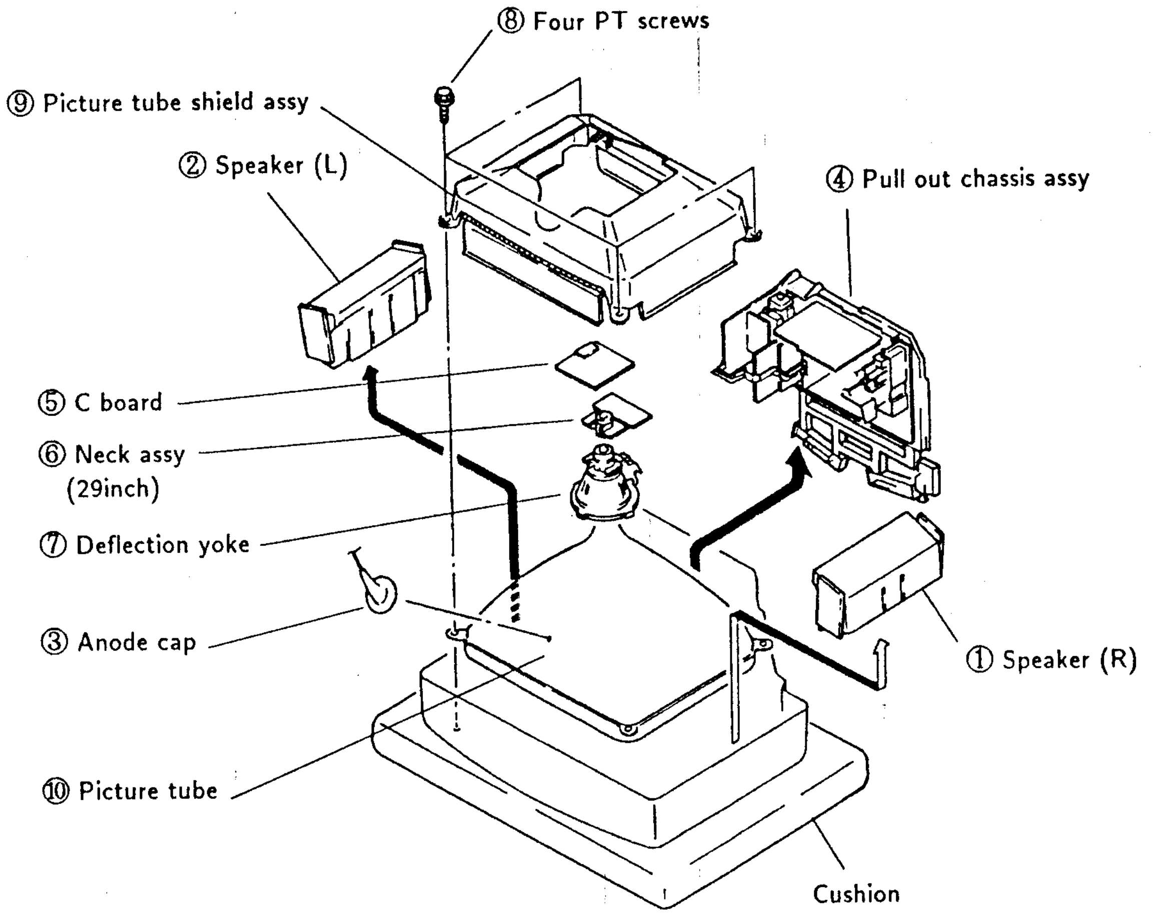
2-5. SERVICE POSITION

* Remove the connector bracket from the main chassis assembly and then perform the following servicing. (Refer to 2-2. CHASSIS ASSY REMOVAL.)



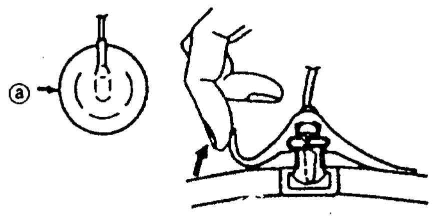
① Remove main chassis assembly in the direction of the arrow.

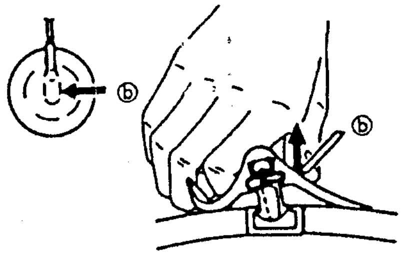
2-6. PICTURE TUBE REMOVAL

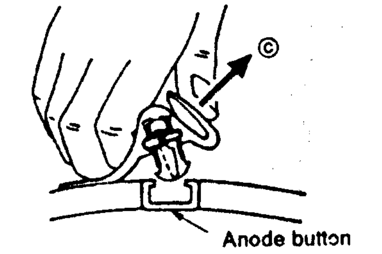

⑧ Four PT screws
⑨ Picture tube shield assy
② Speaker (L)
④ Pull out chassis assy
⑤ C board
⑥ Neck assy (29inch)
⑦ Deflection yoke
③ Anode cap
① Speaker (R)
⑩ Picture tube
Cushion

• REMOVAL OF ANODE-CAP

• REMOVING PROCEDURES






ⓒ
Anode button

① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

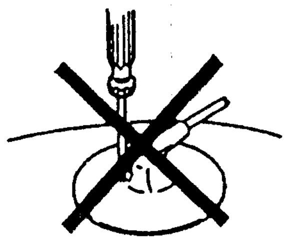
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

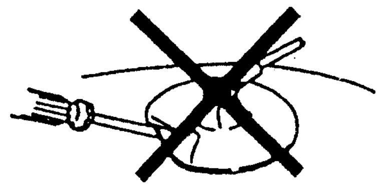
• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch below should be set as follows unless otherwise noted :

◑ CONTRAST control ············ 80%
(or Normal by commander)
☼ BRIGHTNESS control ········· 50%

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2) and White Balance

Note: Test Equipment Required.

1. Color bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

Preparations

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   Contrast } normal
   Bightness }
2. Position neck ass'y as shown in Fig 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
   (See Fig. 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig. 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Fig. 3-4.)

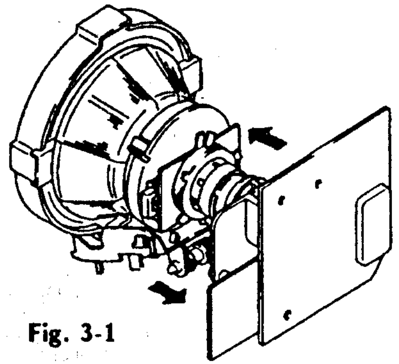


Fig. 3-1

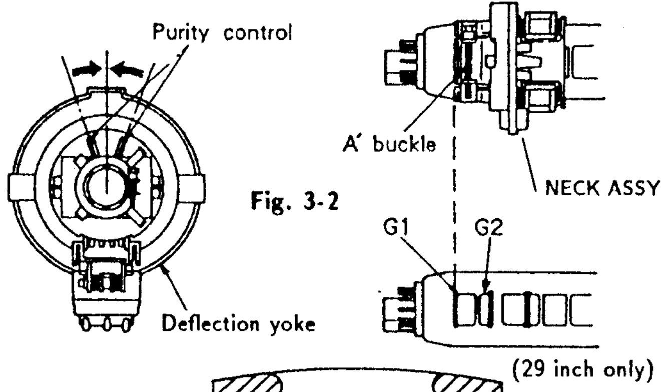

Purity control
A' buckle
NECK ASSY
G1
G2
Deflection yoke
(29 inch only)

Fig. 3-2

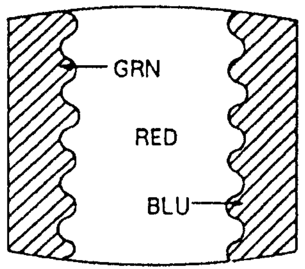


Fig. 3-3

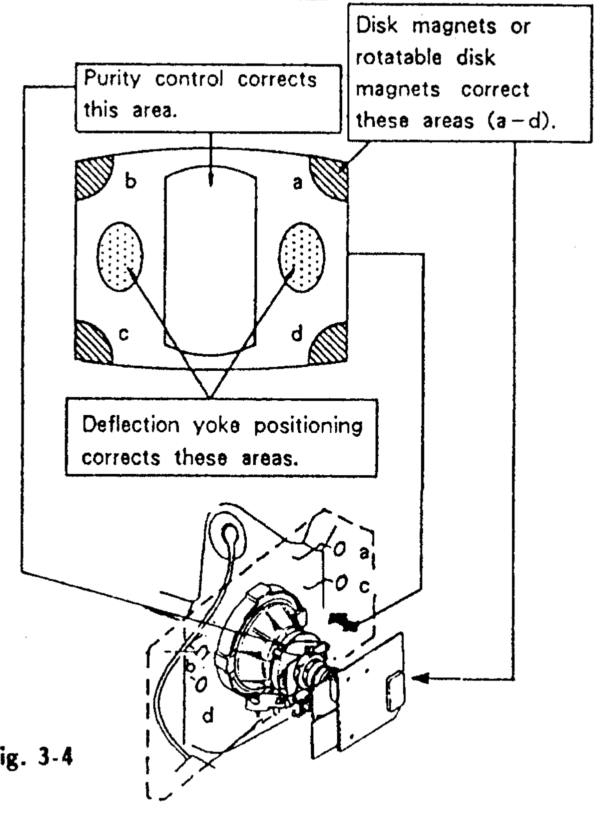

Purity control corrects this area.
Disk magnets or rotatable disk magnets correct these areas (a–d).
a
b
c
d
Deflection yoke positioning corrects these areas.

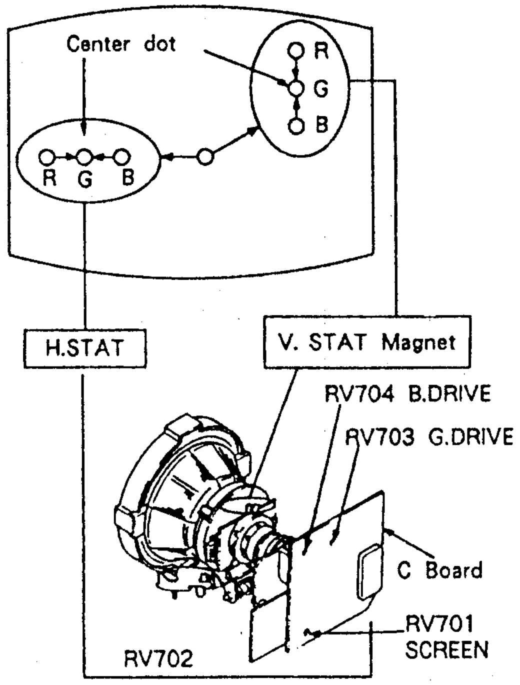
Fig. 3-4

3-2. CONVERGENCE

Preparations :

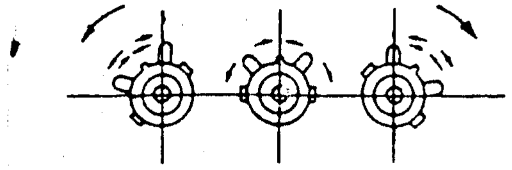
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

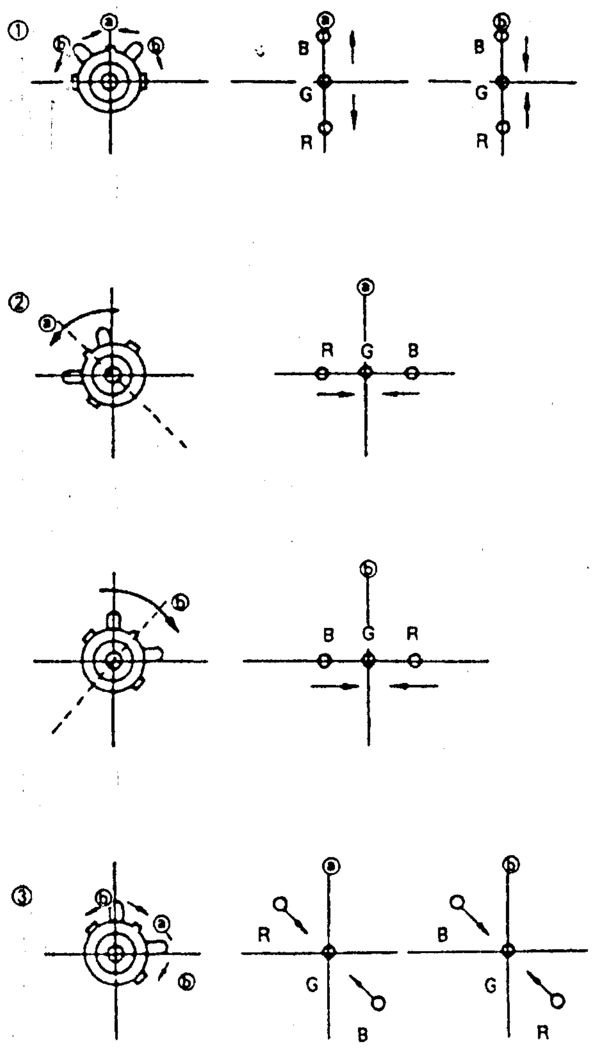

Center dot
R
G
B
H.STAT
V. STAT Magnet
RV704 B.DRIVE
RV703 G.DRIVE
C Board
RV701 SCREEN
RV702

1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

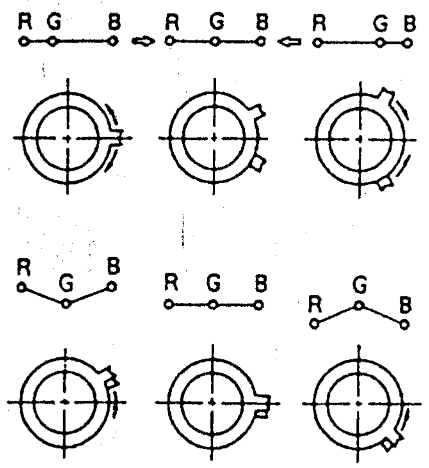
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



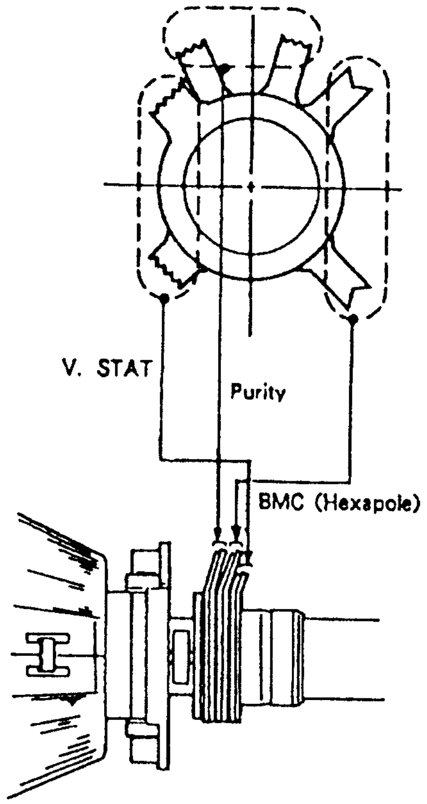
4. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.


①
ⓐ
ⓑ
B
G
R
②
R G B
B G R
③

- Operation of BMC (Hexapole) Magnet



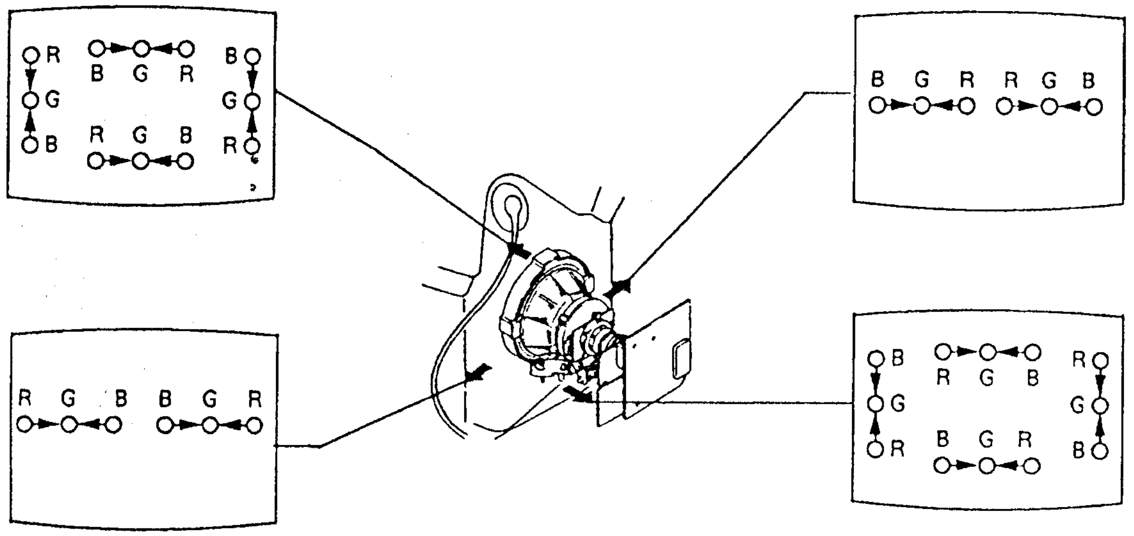
- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



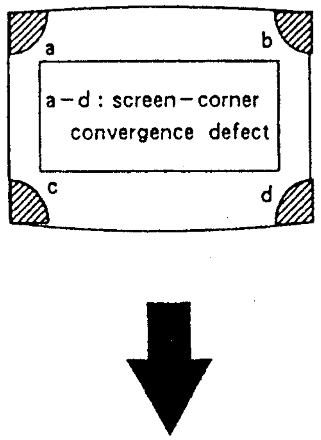
(2) Dynamic convergence adjustment
Preparations :

Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

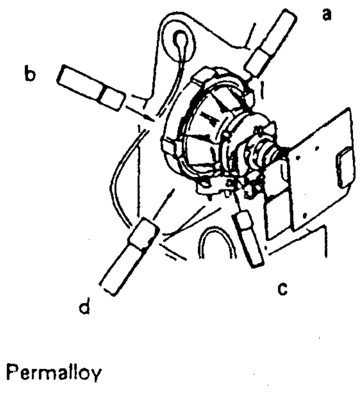
1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the defelection yoke spacer.



(3) Screen corner convergence

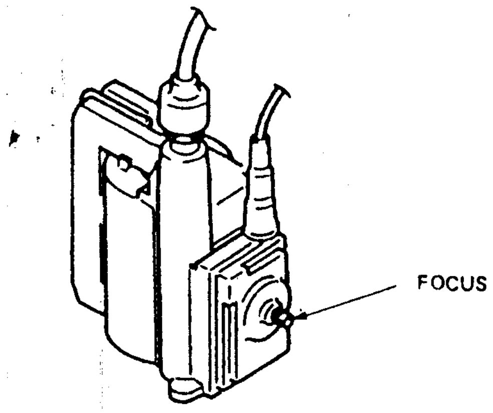


Install the permalloy assembly for the section with faulty.



3-3. FOCUS

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

[Screen G2 setting]

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

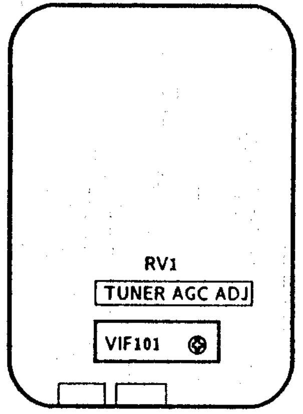
[White balance adjustment]

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS

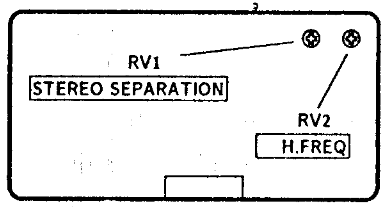

RV1
TUNER AGC ADJ
VIF101

A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (VIF101, RV1)

1. Align with an appropriate signal between stations.
2. Adjust RV1 so that snow noise and cross modulation just disappear from the picture.

IFG5.5S SIF


RV1
STEREO SEPARATION
RV2
H.FREQ

IFG5.5S SIF -component side-

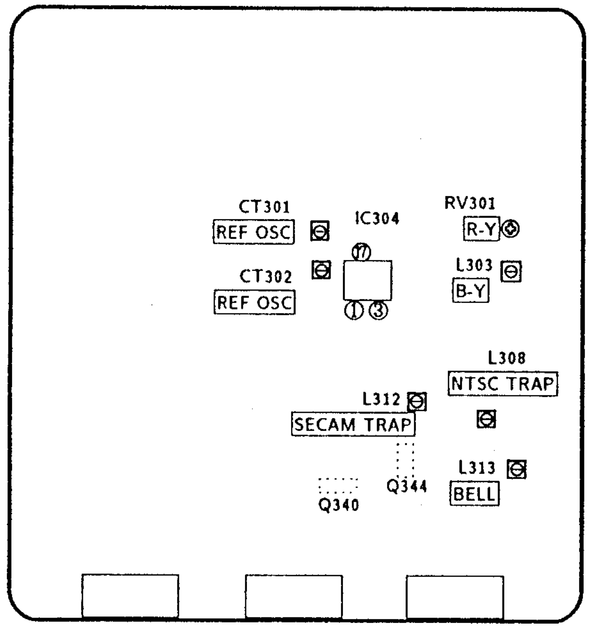
STEREO SEPALATION ADJUSTMENT (RV1)

1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
2. Check the stereo indicator.
3. Connect on oscilloscope to pin⑧ (CH1) of CN1 through band pass filter of 1KHz
4. Adjust RV1 so that 1KHz voltage goes down to the minmum.

H FREQ (RV2)

1. Input a PAL COLOR BAR signal, then connect a jumper between pin⑫ IC4 and GND.
2. Connect a frequency counter to pin④ IFG5.5S (HP) of CN1 through a probe of 10 : 1.
3. Adjust RV2 (H.FREQ) 15.625±50Hz.
4. After adjustment, remove the jamper.

4-2. B1 BOARD ADJUSTMENTS


CT301
REF OSC
IC304
RV301
R-Y
⑰
CT302
REF OSC
L303
B-Y
①③
L308
NTSC TRAP
L312
SECAM TRAP
Q344
L313
BELL
Q340

B1 BOARD (COMPONENT SIDE)

REFERENCE OSCILLATOR ADJUSTMENT (CT302 8.8MHz)

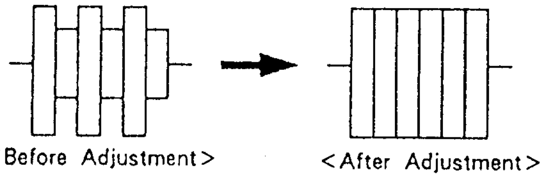
1. Input a PAL color bar signal.
2. Ground pin ⑰ of the IC304.
3. Adjust CT302 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT301 7.16MHz)

1. Input an NTSC color bar signal.
2. Ground pin ⑰ of IC304.
3. Adjust the CT301 to obtain synchronization.
4. Remove the jumper grounding pin ⑰ of IC304.

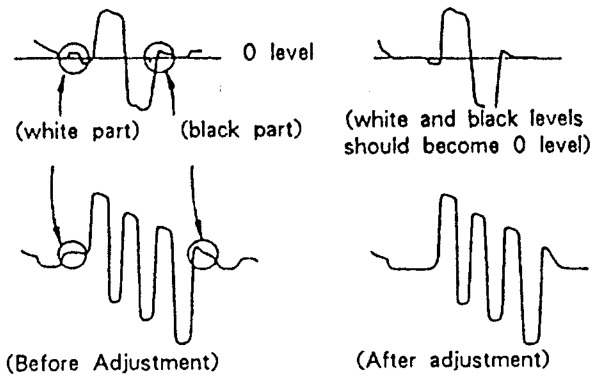
BELL FILTER ADJUSTMENT (L313)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q344.
3. Adjust L313 so that the waveform is flat.



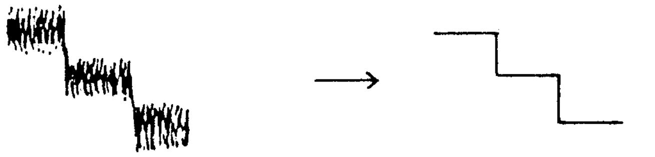
DISCRIMINATION ADJUSTMENTS (RV301 and L303)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to pin ① of IC304.
3. Adjust RV301 until the white and black sections of the waveform at pin ① are at the 0 level.
   Connect the oscilloscope to pin ③ of IC304.
4. Adjust L303 until the white and black sections of
5. the waveform at pin ③ are at the 0 level.


0 level
(white part)
(black part)
(white and black levels should become 0 level)
(Before Adjustment)
(After adjustment)

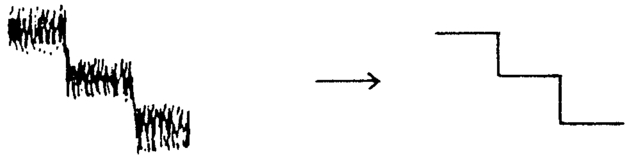
SECAM TRAP (L312)

1. Input a SECAM color bar signal.
2. Connect oscilloscope to Q340 emitter and adjust L312 to minimize color carrier on the Y-signal.

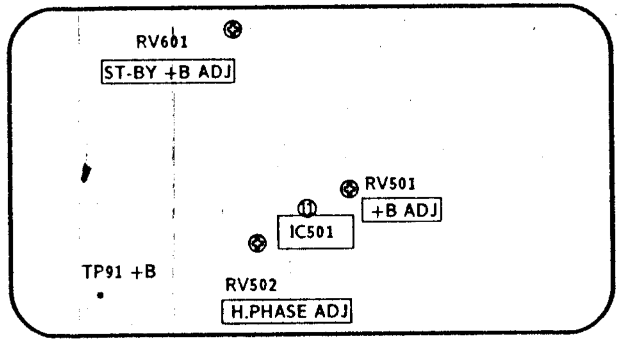


NTSC TRAP (L308)

1. Input a NTSC (3.58) color bar signal.
2. Connect oscilloscope to Q340 emitter and adjust L308 to minimize color carrier on the Y-signal.



4-3. D BOARD ADJUSTMENTS


RV601
ST-BY +B ADJ
RV501
+B ADJ
⑪
IC501
TP91 +B
RV502
H.PHASE ADJ

D BOARD (COMPONENT SIDE)

+B ADJUSTMENT (RV501)

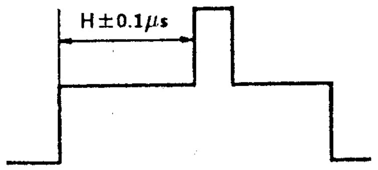
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain 135±0.2V.

ST-BY +B ADJUSTMENT (RV601)

1. Put the system into ⏻ standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain 135±3V.
4. Take the system out of ⏻ standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

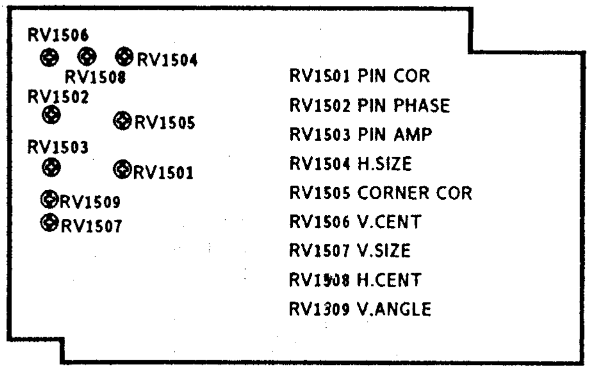
1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to H±0.1μs.



Standard of H. PHASE

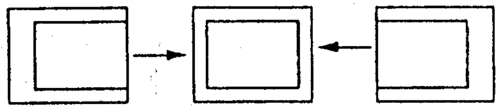
Model Size	H
25″	5.1μs
29″	5.5μs

4-4. J1 BOARD ADJUSTMENTS

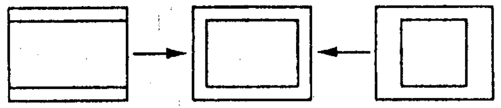

RV1506
RV1504
RV1508
RV1502
RV1505
RV1503
RV1501
RV1509
RV1507
RV1501 PIN COR
RV1502 PIN PHASE
RV1503 PIN AMP
RV1504 H.SIZE
RV1505 CORNER COR
RV1506 V.CENT
RV1507 V.SIZE
RV1508 H.CENT
RV1309 V.ANGLE

J1 BOARD (COMPONENT SIDE)

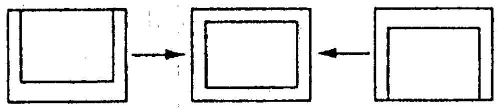
RV1508
H. CENT (HORIZONTAL CENTER)



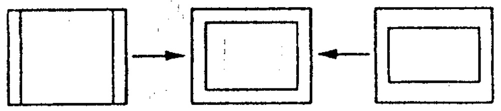
RV1504
H. SIZE (HORIZONTAL SIZE)



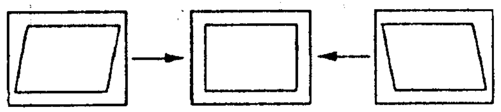
RV1506
V. CENT (VERTICAL CENTER)



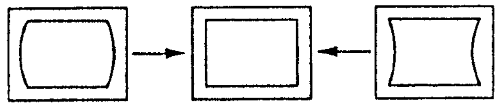
RV1507
V. SIZE (VERTICAL SIZE)



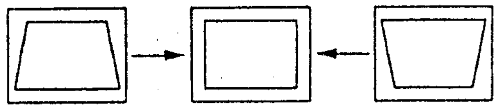
RV1509
V. ANGLE (VERTICAL ANGLE)



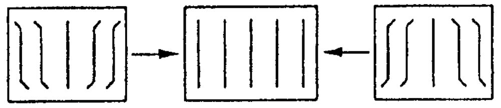
RV1503
PIN AMP (PINCUSHION AMPLIFIER)



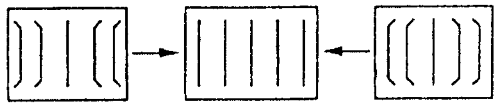
RV1502
PIN PHASE (PINCUSHION PHASE)



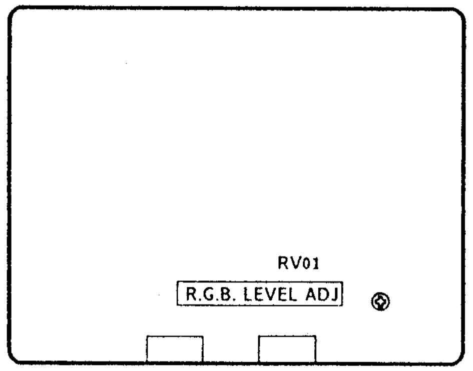
RV1501
PIN. COR (PINCUSHION CORRECT)



RV1505
CORNER. COR (CORNER CORRECT)



4-5. V BOARD ADJUSTMENT


RV01
R.G.B. LEVEL ADJ

V BOARD (COMPONENT SIDE)

RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

4-6. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

1. Set the system to receive a test pattern.
2. Press → • ← on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and − simultaneusly, turn on the power. (SUB mode is obtained)
5. Minimize the ◑ contrast setting.
6. Adjust the ☼ brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the ◇ (store) button of the remote commander.
   (SUB mode is released)

If there is no test color pattern

1. Set the system to receive a color pattern.
2. Press → • ← on the remote commander to put the system into normal mode.
   Set the ⊕ color to its normal state.

3-5. Steps are the same as above.

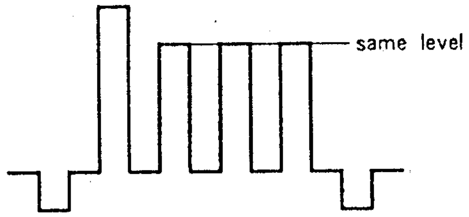
6. Since 20 IRE is nearly blue, adjust the ☼ brightness control so that the blue barely glows.

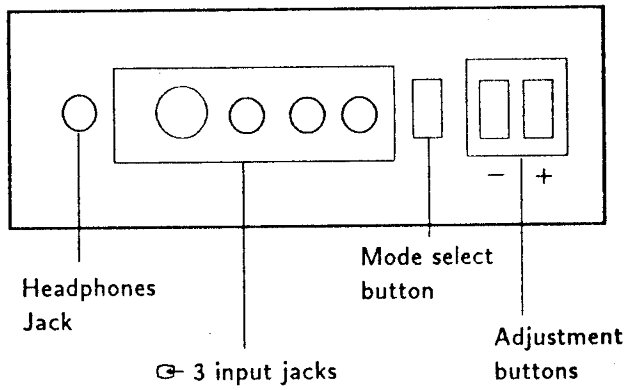
7. Same as step 7 above.

8. Press → • ← on the remote commander to put the system into normal mode.

SUB COLOR ADJUSTMENT

1. Set the system to receive color bars.
2. Press → • ← on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and − simultaneusly, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the ◇ (store) button of the remote commander. (SUB mode is released)

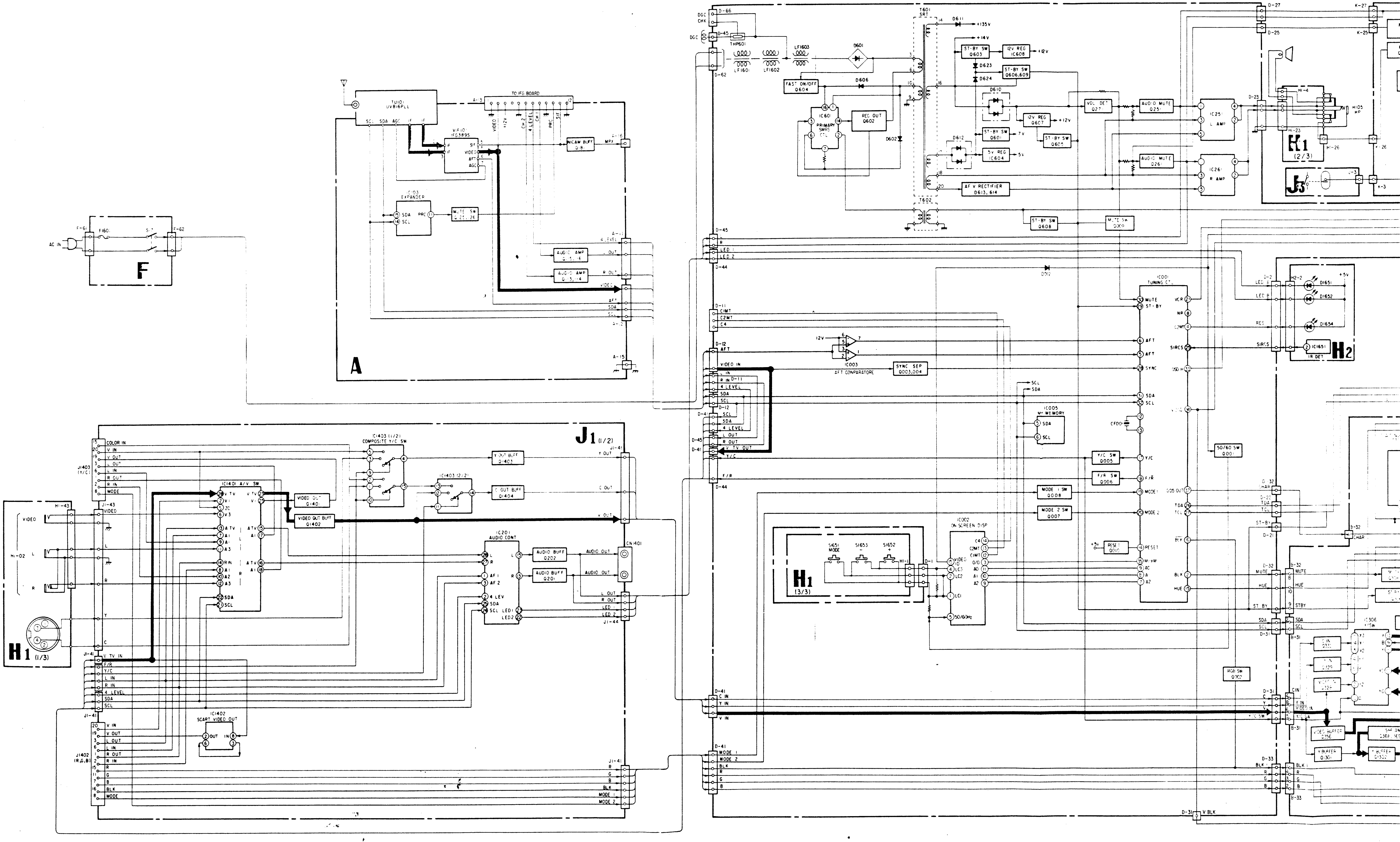


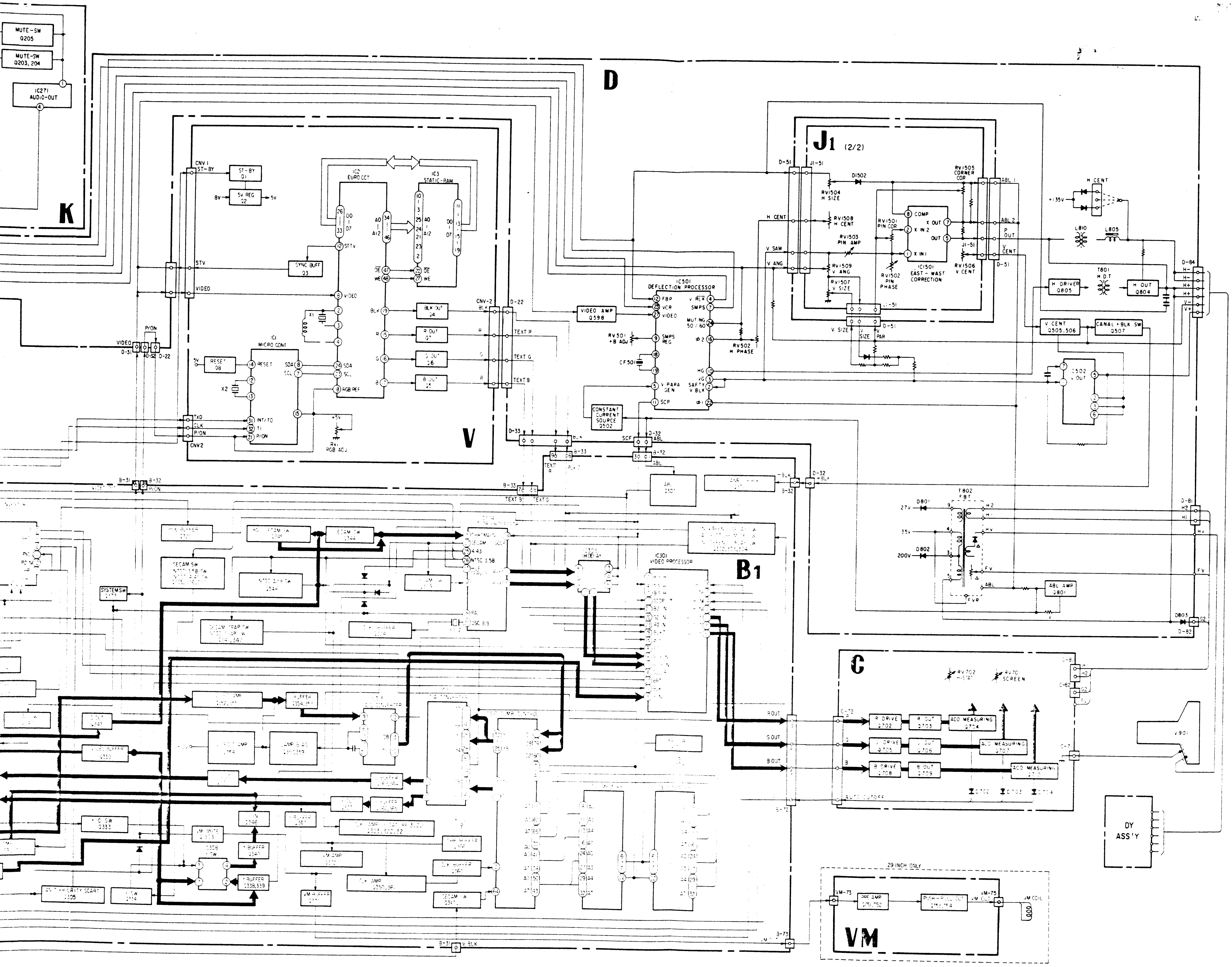

− +
Headphones Jack
Mode select button
Adjustment buttons
⊖ 3 input jacks

MEMO

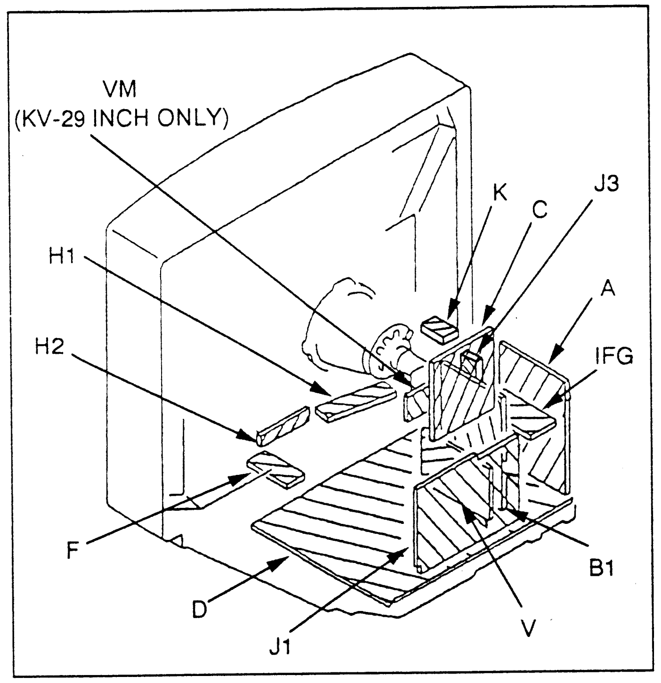
DIAGRAMS

5-1. BLOCK DIAGRAM


TU101 UV816PLL
SCL SDA AGC IF IF
TO IFG BOARD
A-3
VIF101 IFG3895
SIF
VIDEO
AFT
AGC
NICAM BUFF Q18
MPX
A-16
IC103 EXPANDER
SDA
SCL
PRC
MUTE SW
AUDIO AMP
AUDIO AMP
4 LEVEL
L OUT
R OUT
VIDEO
AFT
SDA
SCL
A-15
A
AC IN
F-61
F1601
S-1
F-62
F
J1 (1/2)
J1403 (Y/C)
COLOR IN
V IN
V OUT
L OUT
L IN
R OUT
R IN
MODE
IC1403 (1/2) COMPOSITE Y/C SW
IC1403 (2/2)
Y OUT BUFF Q1403
C OUT BUFF Q1404
IC1401 A/V SW
VIDEO OUT Q1401
VIDEO OUT BUFF Q1402
Y OUT
C OUT
V OUT
IC201 AUDIO CONT
AUDIO BUFF Q202
AUDIO BUFF Q201
AUDIO OUT
AUDIO OUT
CN1401
L OUT
R OUT
LED 1
LED 2
J1-44
H1-43
VIDEO
H1-02
L
R
H1 (1/3)
J1-41
V TV IN
F/R
Y/C
L IN
R IN
4 LEVEL
SDA
SCL
IC1402 SCART VIDEO OUT
J1402 (R,G,B)
V IN
V OUT
L OUT
L IN
R OUT
R IN
R
G
B
BLK
MODE
MODE 1
MODE 2
DGC CHK
DGC
D-66
D-45
THP601
LF1601
LF1602
LF1603
D601
T601 SRT
D611
+135V
+14V
ST-BY SW Q603
12V REG IC608
+12V
D623
ST-BY SW Q606,609
D624
D610
FAST ON/OFF Q604
D606
IC601 PRIMARY SMPS CTL
REG OUT Q602
D602
12V REG Q607
ST-BY SW Q601
7V
ST-BY SW Q605
D612
5V REG IC604
5V
AF V RECTIFIER D613, 614
T602
ST-BY SW Q608
MUTE SW Q609
VOL DET Q27
AUDIO MUTE Q251
AUDIO MUTE Q261
IC251 L AMP
IC261 R AMP
D-27
D-25
D-23
H1-4
H1-23
H1-26
H105 HP
H1 (2/3)
J3
J-3
K-27
K-25
K-26
K-3
D-45
LED 1
LED 2
D-44
D-11
CIMT
C2MT
C4
D-12
AFT
12V
IC003 AFT COMPARATORE
VIDEO IN
SYNC SEP Q003,004
L IN
R IN
4 LEVEL
SDA
SCL
L OUT
R OUT
V TV OUT
Y/C
F/R
D-41
D612
IC001 TUNING CTL
MUTE
ST-BY
VCR
NR
C2MT
SIRCS
OSD H
AFT
SYNC
SDA
SCL
CF001
IC005 NV MEMORY
Y/C SW Q005
F/R SW Q006
50/60 SW Q001
MODE 1 SW Q008
MODE 2 SW Q007
OSD OUT
TDA
TCL
RESET Q010
+5V
RESET
H1 (3/3)
S1651 MODE
S1653
S1652
IC002 ON SCREEN DISP
VIDEO
LC3
LC2
LC1
50/60Hz
C4
C2MT
CIMT
D/D
A0
A1
A2
BLK
HUE
H2
H2-2
D1651
D1652
D1654
IC1651 IR DET
LED 2
LED B
RES
SIRCS
+5V
D-32
CHAR
D-21
ST-B1
B-32
MUTE
HUE
ST BY
SDA
SCL
D-31
B-31
RGB SW Q002
C IN
Y IN
VIDEO IN
Y/C SW
V IN
VIDEO BUFFER
Y BUFFER
D-33
BLK
R
G
B
B-33
V BLK


MUTE-SW
Q205
MUTE-SW
Q203, 204
IC271
AUDIO-OUT
K
D
V
CNV1
ST-BY
ST-BY
Q1
5V REG
Q2
8V
5V
IC2
EURO CCT
IC3
STATIC-RAM
STTV
SYNC BUFF
Q3
VIDEO
IC1
MICRO CONT
RESET
Q8
SDA
SCL
RGB REF
TXD
CLK
P/ON
CNV2
INT/TO
T1
RV1
RGB ADJ
BLK OUT
Q4
R OUT
Q7
G OUT
Q6
B OUT
Q5
CNV-2
D-22
TEXT R
TEXT G
TEXT B
VIDEO AMP
Q598
IC501
DEFLECTION PROCESSOR
FBP
VCR
VIDEO
SMPS REG
CF501
V PARA GEN
SCP
V RLR
SMPS
MUTING 50/60
Φ2
HG
VG
SAFTY V BLK
Φ1
RV501
+B ADJ
RV502
H PHASE
CONSTANT CURRENT SOURCE
Q502
D-33
D-32
ABL
SCP
B-33
B-32
VIDEO
D-31
P/ON
J1 (2/2)
D-51
J1-51
D1502
RV1504
H SIZE
RV1508
H CENT
RV1503
PIN AMP
RV1509
V ANG
RV1507
V SIZE
RV1501
PIN COR
RV1502
PIN PHASE
RV1505
CORNER COR
COMP
X IN 2
X IN 1
X OUT
OUT
IC1501
EAST-WEST CORRECTION
RV1506
V CENT
ABL 1
ABL 2
P OUT
V CENT
H CENT
V SAW
V ANG
V SIZE
V SIZE
P&R
H CENT
+135V
L810
L805
T801
H.D.T
H DRIVER
Q805
H OUT
Q804
D-84
H-
H+
V-
V+
V CENT
Q505, 506
CANAL+BLK SW
Q507
I502
V OUT
T802
FBT
D801
27V
35V
D802
200V
ABL AMP
Q801
ABL
D-81
H2
H1
HV
FV
D803
D-82
FVR
B1
IC301
VIDEO PROCESSOR
SECAM SW
SYSTEM SW
C
RV702
RV701
SCREEN
R DRIVE
Q702
R OUT
Q703
ACG MEASURING
Q704
G DRIVE
Q705
G OUT
Q706
ACG MEASURING
Q707
B DRIVE
Q708
B OUT
Q709
ACG MEASURING
Q710
D702
D703
D704
R OUT
G OUT
B OUT
V901
DY ASS'Y
29 INCH ONLY
VM-73
PRE AMP
Q751, 752
PUSH-PULL OUT
Q753, 754
VM-75
VM COIL
VM
B-73
B-31
V BLK

5-2. CIRCUIT BOARDS LOCATION


VM
(KV-29 INCH ONLY)
K
C
J3
H1
A
H2
IFG
F
B1
D
J1
V

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm Rating electrical power : ¼W

- Chip resistor is in 1/10W.
- All resistors are in ohms. kΩ = 1000Ω, MΩ = 1000KΩ
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- ☐ : panel designation or adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal produc-tion tolerances.
- ▬ : B+ bus.
- ⇨ : signal path.(RF)

Reference information

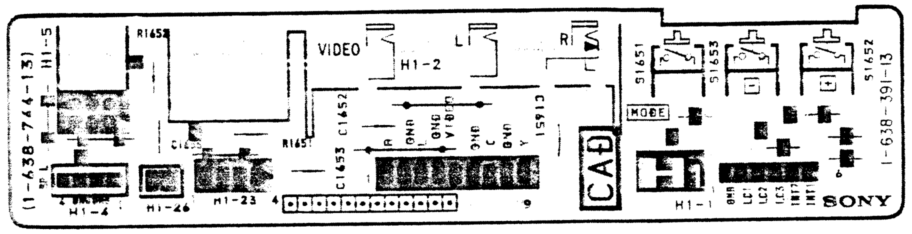
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

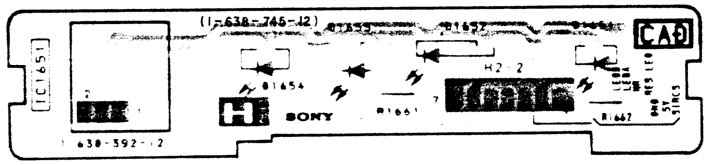
28

H1 [CONTROL SW, AV INPUT, HEADPHONE] **H2** [SIRCS RECEIVER, INDICATOR] **F** [AC IN, POWER SW] **J3** [SPEAK

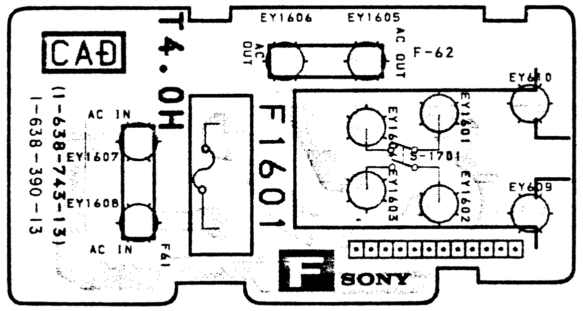
– H1 Board – ( ) : 25 INCH


1-638-744-13
R1452
VIDEO
H1-2
L
R
S1651
S1653
S1652
1-638-391-13
MODE
C1452
C1453
S1651
CAD
H1
H1-4
H1-46
H1-23
H1-1
SONY

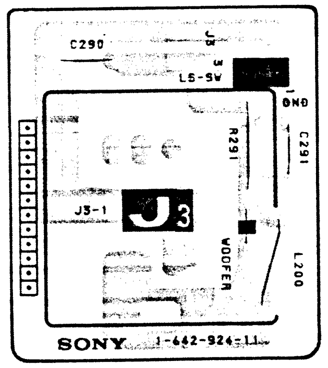
– H2 Board – ( ) : 25 INCH


1-638-745-12
IC1651
D1654
H2 2
CAD
H
SONY
630-392-2

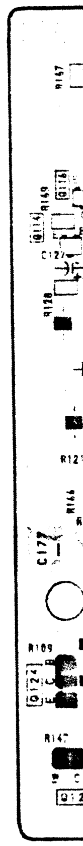
– F Board – ( ) : 25 INCH


CAD
T4.0H
EY1606
EY1605
AC OUT
F-62
AC IN
EY1607
EY1608
1-638-743-13
1-638-390-13
F1601
S1701
EY1601
EY1602
EY1603
EY1604
EY1610
EY1609
F61
F
SONY

– J3 Board –

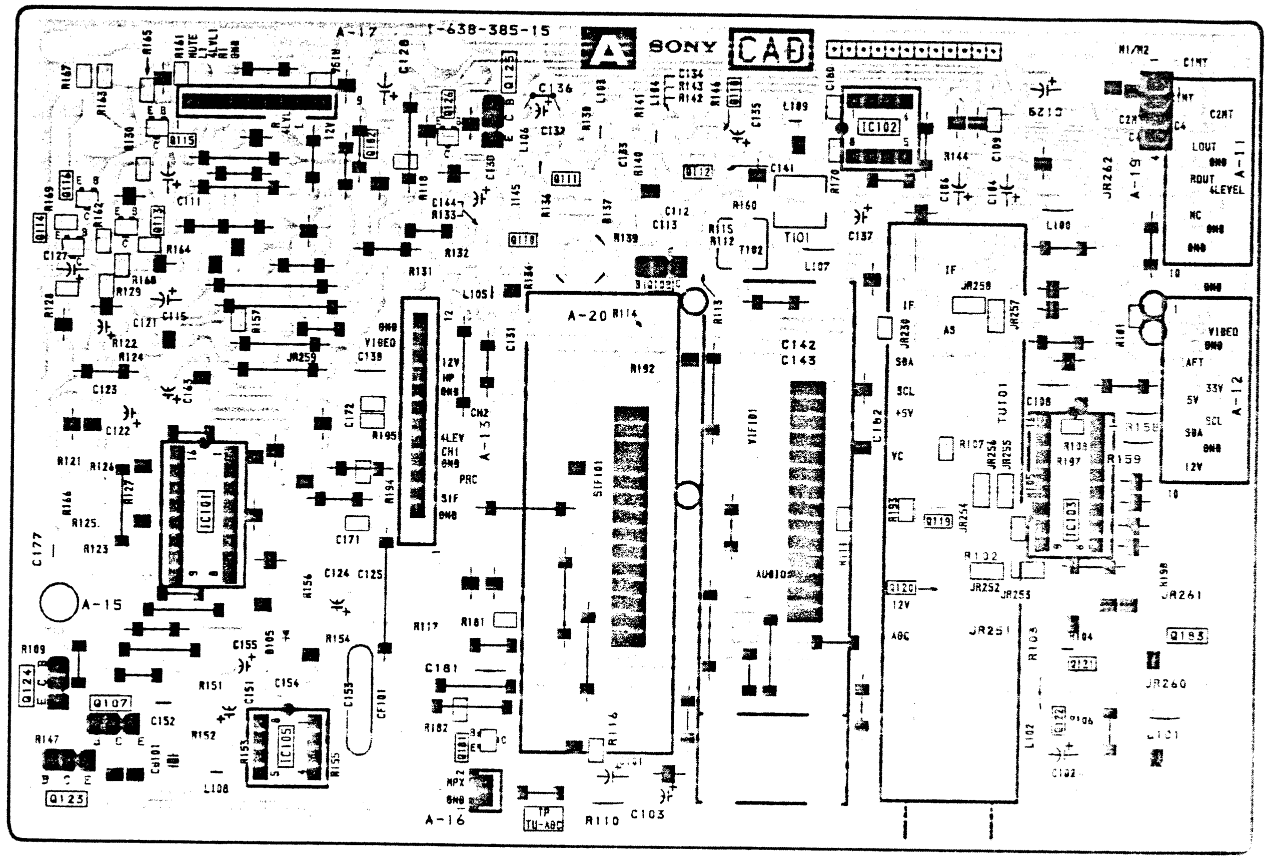

C290
J3
LS-SW
GND
R291
C291
J3-1
J3
WOOFER
L200
SONY
1-662-924-11

– A Bo

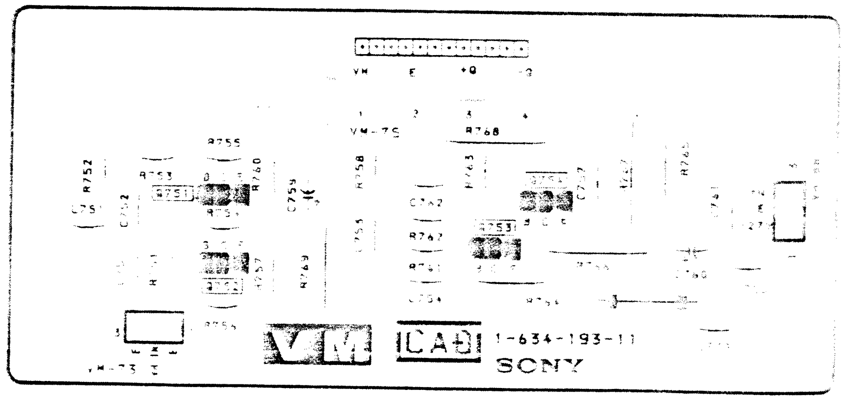


F [AC IN, POWER SW] **J3** [SPEAKER TERMINAL] **A** [TUNER, SIF, VIF] **VM** [VM AMP] **J1** [AUDIO CONTROL, AV INPUT, Y/C INPUT, SCART VIDEO OUT, EAST-WEST CORRECTION]

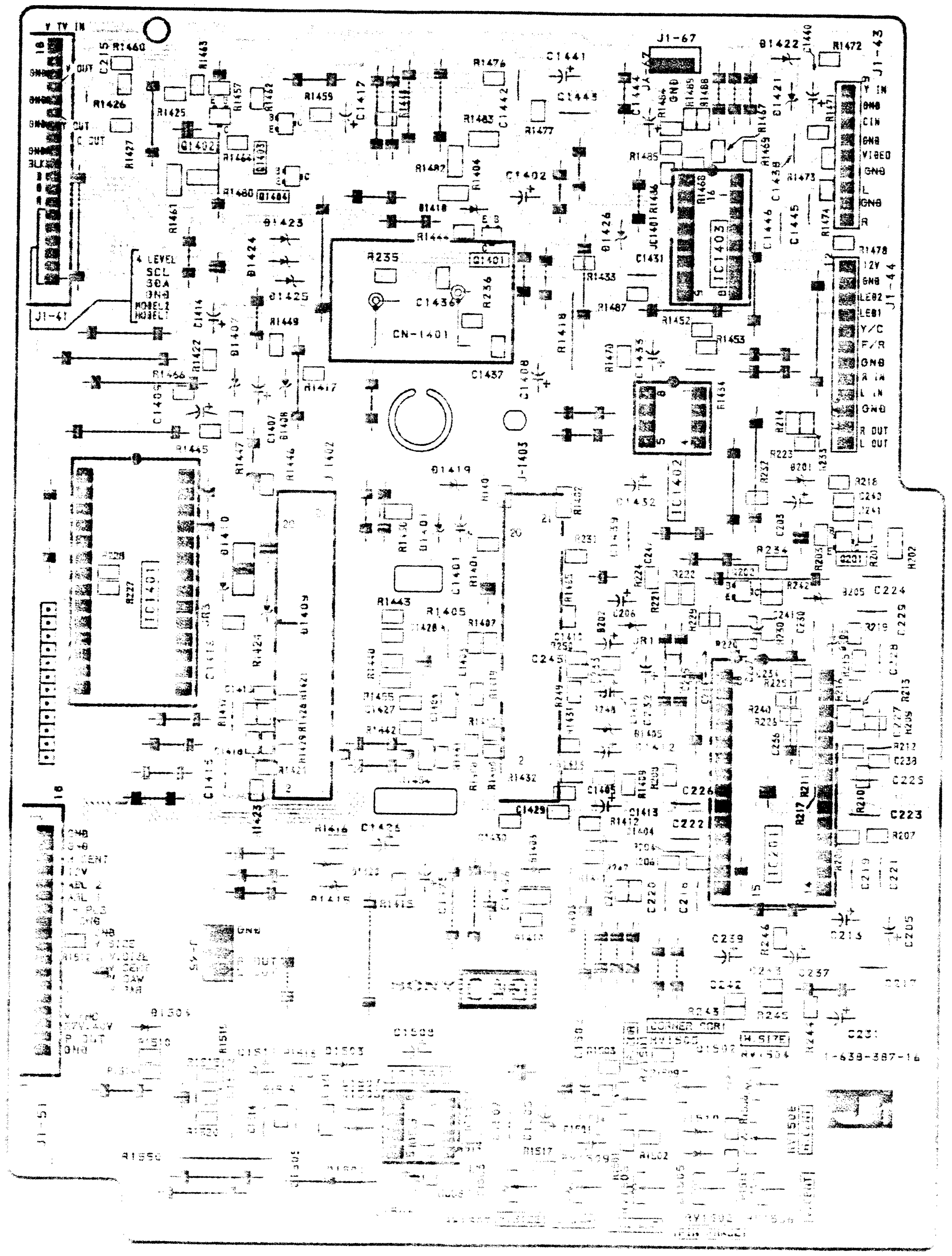
- A Board -


1-638-385-15
A
SONY
CAD
IC101
IC102
IC103
IC105
A-15
A-16
A-17
A-19
A-20
A-11
A-12
TU101
SIF101
VIF101

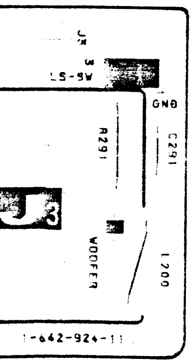
- VM Board - (29 INCH ONLY)

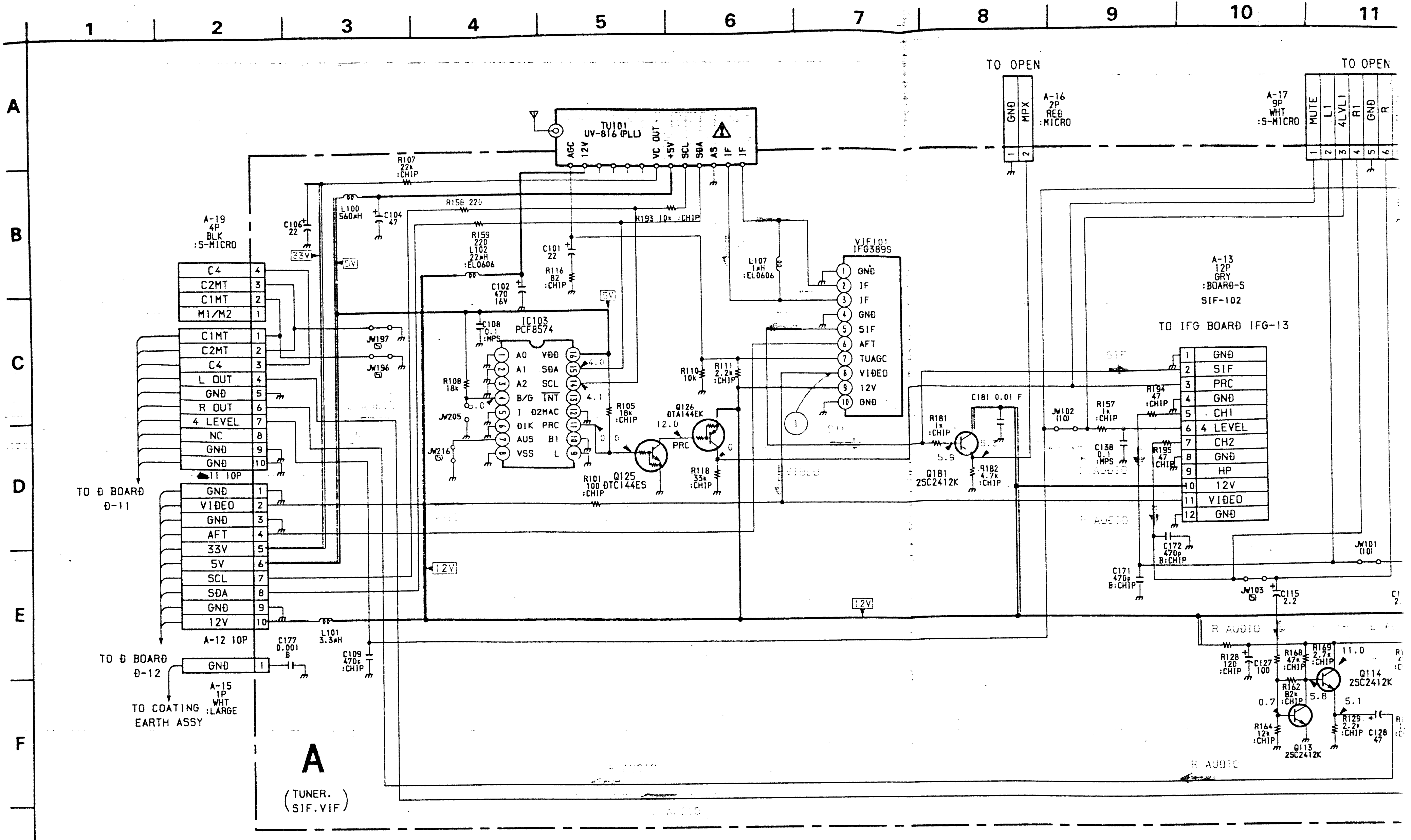

VM
CAD
1-634-193-11
SONY

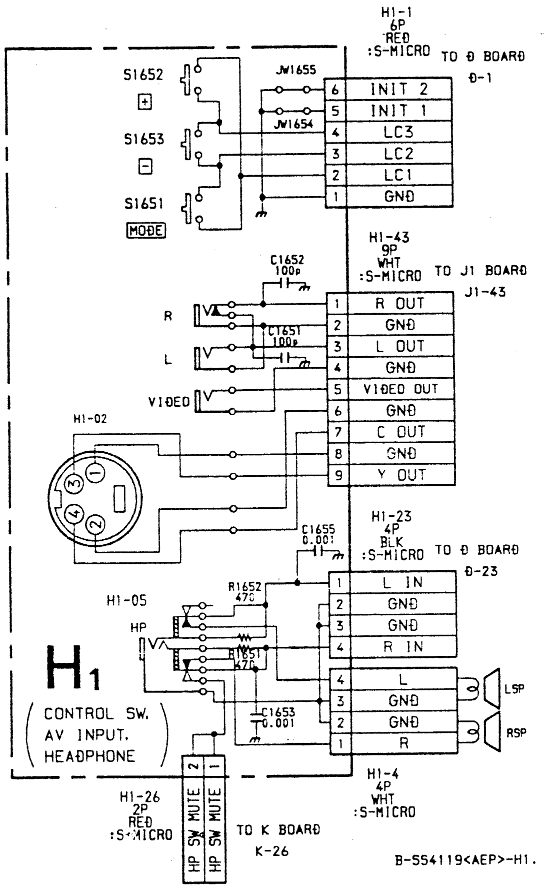
- J1 Board -


J1-41
J1-43
J1-44
J1-51
J1-67
IC1401
IC1402
IC1403
CN-1401
CAD
1-638-387-16

-


LS-SW
GND
R291
C291
WOOFER
1200
1-642-924-11

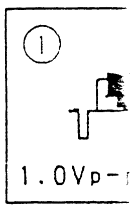

1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
TU101
UV-816 (PLL)
AGC
12V
VC OUT
+5V
SCL
SDA
AS
IF
IF
TO OPEN
A-16
2P
RED
:MICRO
GND
MPX
A-17
9P
WHT
:S-MICRO
MUTE
L1
4LVL1
R1
GND
A-19
4P
BLK
:S-MICRO
C4
C2MT
C1MT
M1/M2
C1MT
C2MT
C4
L OUT
GND
R OUT
4 LEVEL
NC
GND
GND
-11 10P
TO D BOARD
D-11
GND
VIDEO
GND
AFT
33V
5V
SCL
SDA
GND
12V
A-12 10P
TO D BOARD
D-12
GND
A-15
1P
WHT
:LARGE
TO COATING
EARTH ASSY
VIF101
IFG3895
GND
IF
IF
GND
SIF
AFT
TUAGC
VIDEO
12V
GND
IC103
PCF8574
A0
A1
A2
B/G
I
DIK
AUS
VSS
VDD
SDA
SCL
INT
D2MAC
PRC
B1
L
Q125
DTC144ES
Q126
DTA144EK
PRC
Q181
2SC2412K
A-13
12P
GRY
:BOARD-S
SIF-102
TO IFG BOARD IFG-13
GND
SIF
PRC
GND
CH1
4 LEVEL
CH2
GND
HP
12V
VIDEO
GND
Q114
2SC2412K
Q113
2SC2412K
R AUDIO
A
TUNER.
SIF.VIF


H1-1
6P
RED
:S-MICRO
TO D BOARD
D-1
S1652
S1653
S1651
MODE
INIT 2
INIT 1
LC3
LC2
LC1
GND
H1-43
9P
WHT
:S-MICRO
TO J1 BOARD
J1-43
R OUT
GND
L OUT
GND
VIDEO OUT
GND
C OUT
GND
Y OUT
R
L
VIDEO
H1-02
H1-23
4P
BLK
:S-MICRO
TO D BOARD
D-23
L IN
GND
GND
R IN
H1-05
HP
L
GND
GND
R
LSP
RSP
H1-4
4P
WHT
:S-MICRO
H1
CONTROL SW.
AV INPUT.
HEADPHONE
H1-26
2P
RED
:S-MICRO
HP SW MUTE
HP SW MUTE
TO K BOARD
K-26
B-SS4119<AEP>-H1.

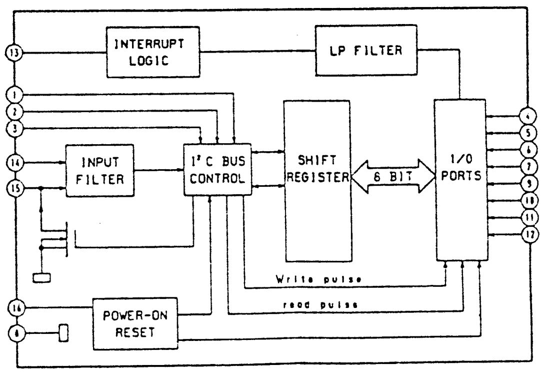
• A BOARD

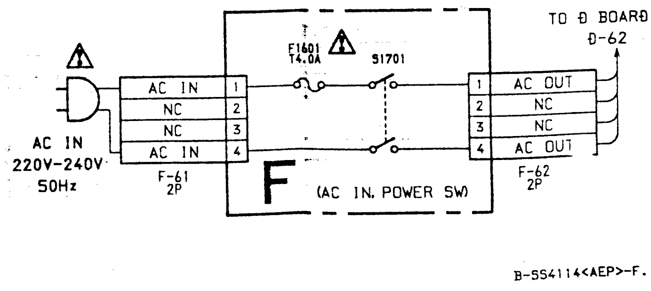
IC103	PCF8574	EXPANDER
Q113	2SC2412K	AUDIO AMP
Q114	2SC2412K	AUDIO AMP
Q115	2SC2412K	AUDIO AMP
Q116	2SC2412K	AUDIO AMP
Q125	DTC144ES	MUTE SW
Q126	DTA144EK	MUTE SW
Q181	2SC2412K	NICAM BUFFER

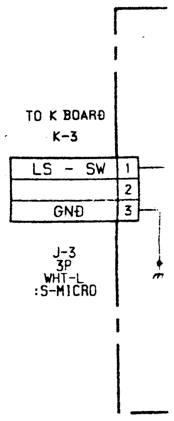
• WAVEFOF

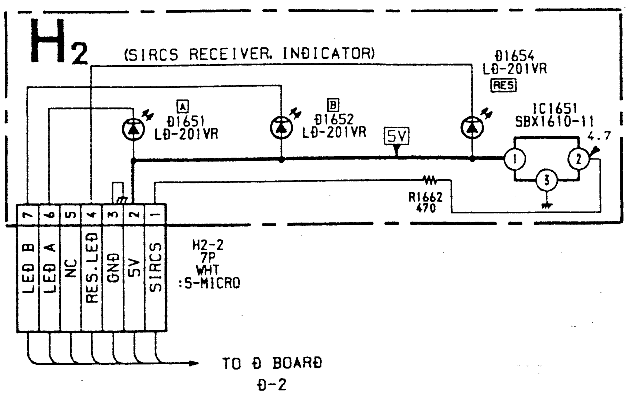


• A BOARD IC103 PCF8574


INTERRUPT LOGIC
LP FILTER
INPUT FILTER
I²C BUS CONTROL
SHIFT REGISTER
8 BIT
I/O PORTS
write pulse
read pulse
POWER-ON RESET


AC IN
220V-240V
50Hz
AC IN
NC
NC
AC IN
F-61
2P
F1601
T4.0A
S1701
TO D BOARD
D-62
AC OUT
NC
NC
AC OUT
F-62
2P
F
(AC IN. POWER SW)
B-SS4114<AEP>-F..

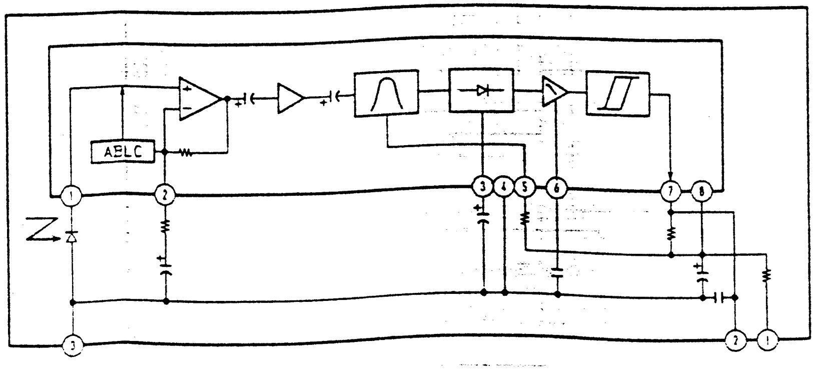

TO K BOARD
K-3
LS - SW
GND
J-3
3P
WHT-L
:S-MICRO

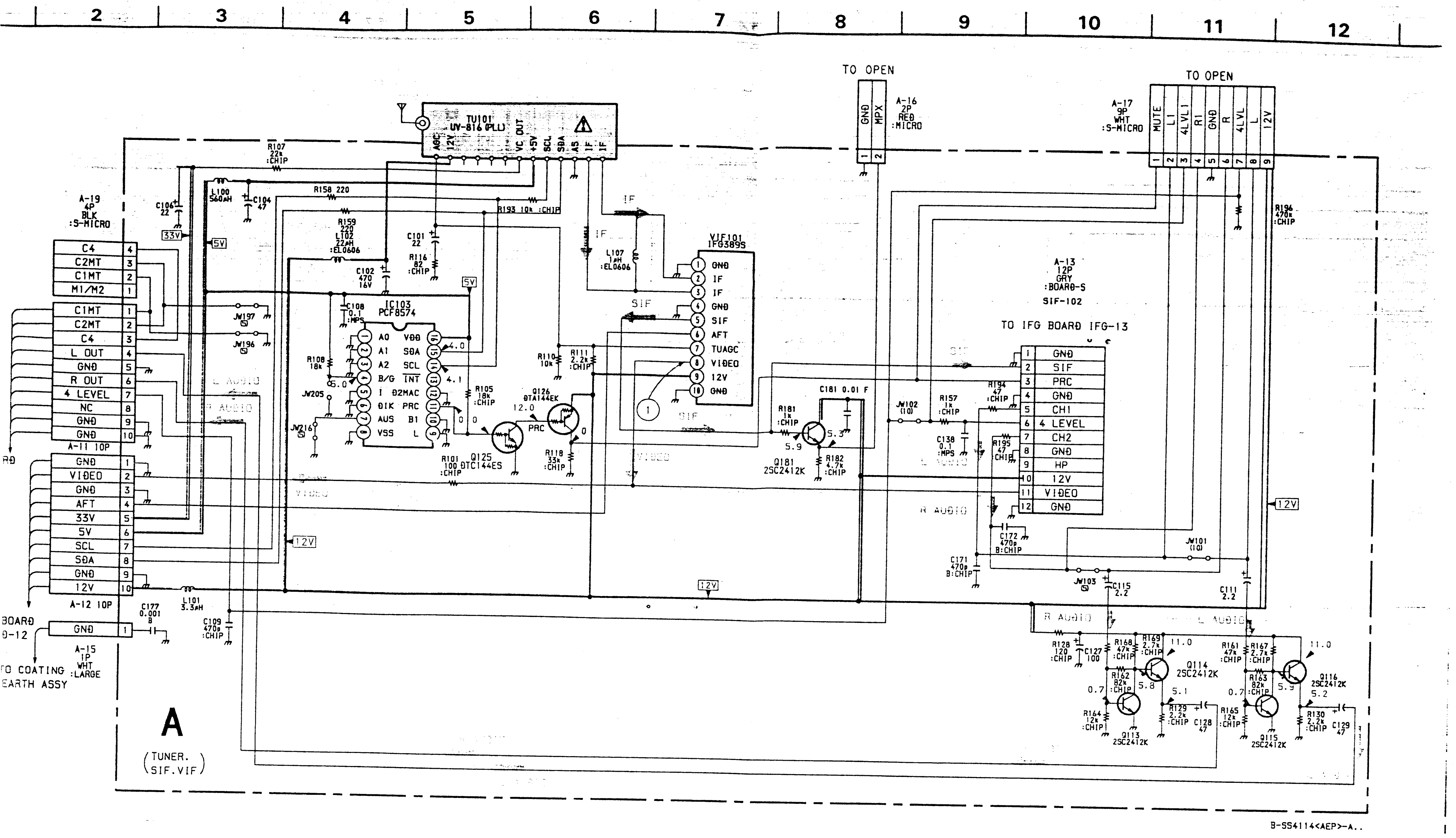

H2
(SIRCS RECEIVER. INDICATOR)
A
D1651
LD-201VR
B
D1652
LD-201VR
D1654
LD-201VR
RES
IC1651
SBX1610-11
5V
R1662
470
LED B
LED A
NC
RES.LED
GND
5V
SIRCS
H2-2
7P
WHT
:S-MICRO
TO D BOARD
D-2

• H2 BOARD

IC1651	SBX1610-11	INFRARED RECIEVER
D1651	LD-201VR	AUDIO CHANNEL A INDICATOR
D1652	LD-201VR	AUDIO CHANNEL B INDICATOR
D1654	LD-201VR	RESET

• H2 BOARD IC1651 SBX1610-11

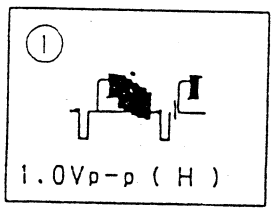



TU101 UV-816 (PLL)
TO OPEN
A-16 2P RED :MICRO
A-17 9P WHT :S-MICRO
MUTE
L1
4LVL1
R1
GND
R
4LVL
L
12V
A-19 4P BLK :S-MICRO
C4
C2MT
C1MT
M1/M2
L OUT
R OUT
4 LEVEL
NC
A-11 10P
VIDEO
AFT
33V
5V
SCL
SDA
12V
A-12 10P
A-15 1P WHT :LARGE
TO COATING EARTH ASSY
IC103 PCF8574
VIF101 IFG389S
IF
SIF
TUAGC
A-13 12P GRY :BOARD-S SIF-102
TO IFG BOARD IFG-13
PRC
CH1
CH2
HP
Q125 DTC144ES
Q126 DTA144EK
Q181 2SC2412K
Q113 2SC2412K
Q114 2SC2412K
Q115 2SC2412K
Q116 2SC2412K
R AUDIO
L AUDIO
A
(TUNER. SIF.VIF)
B-SS4114<AEP>-A..

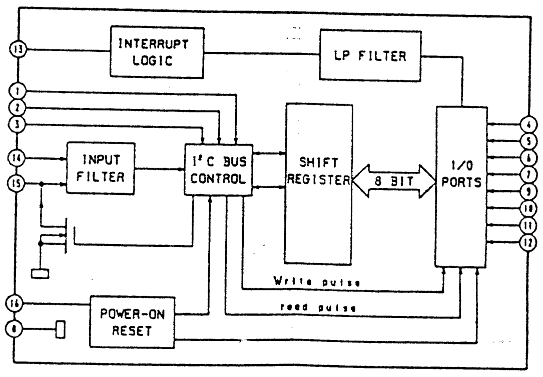
• A BOARD

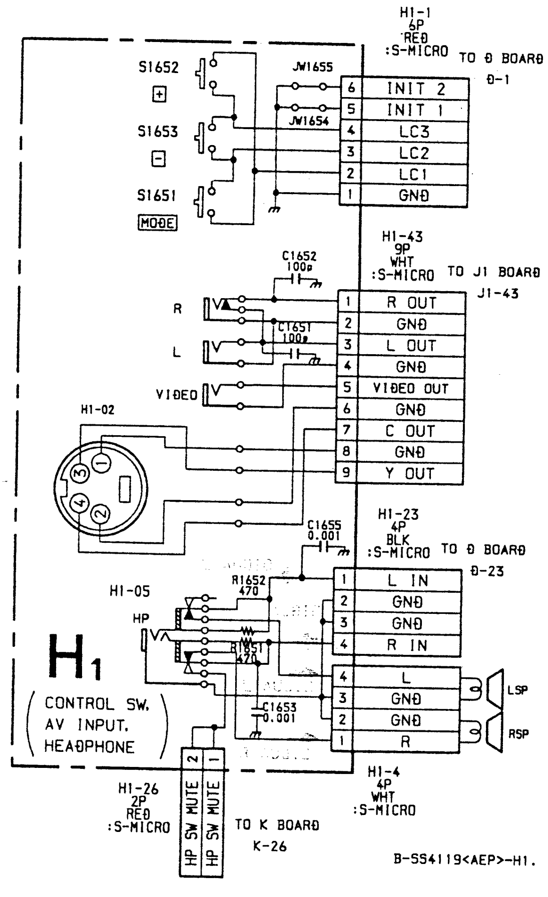
IC103	PCF8574	EXPANDER
Q113	2SC2412K	AUDIO AMP
Q114	2SC2412K	AUDIO AMP
Q115	2SC2412K	AUDIO AMP
Q116	2SC2412K	AUDIO AMP
Q125	DTC144ES	MUTE SW
Q126	DTA144EK	MUTE SW
Q181	2SC2412K	NICAM BUFFER

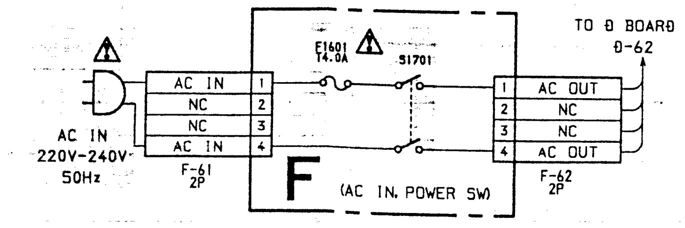
• WAVEFORMS A BOARD

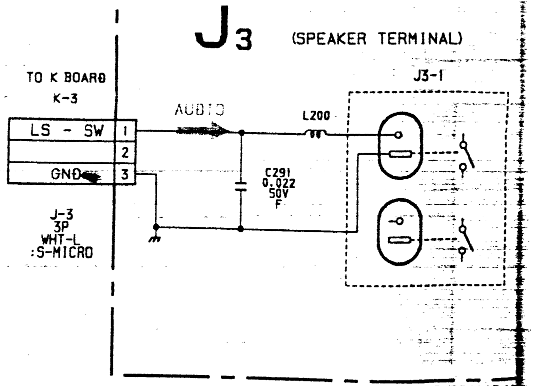


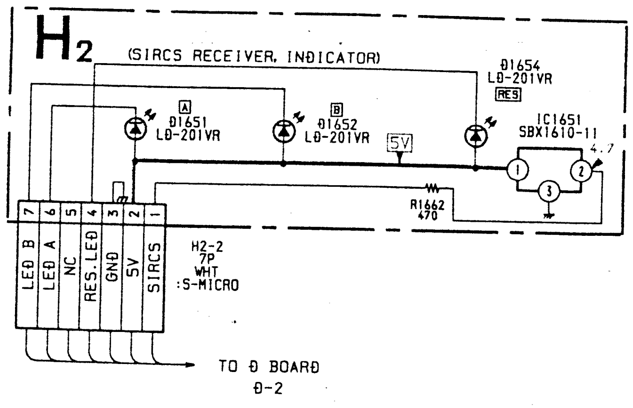
• A BOARD IC103 PCF8574


INTERRUPT LOGIC
LP FILTER
INPUT FILTER
I²C BUS CONTROL
SHIFT REGISTER
8 BIT
I/O PORTS
POWER-ON RESET
Write pulse
read pulse

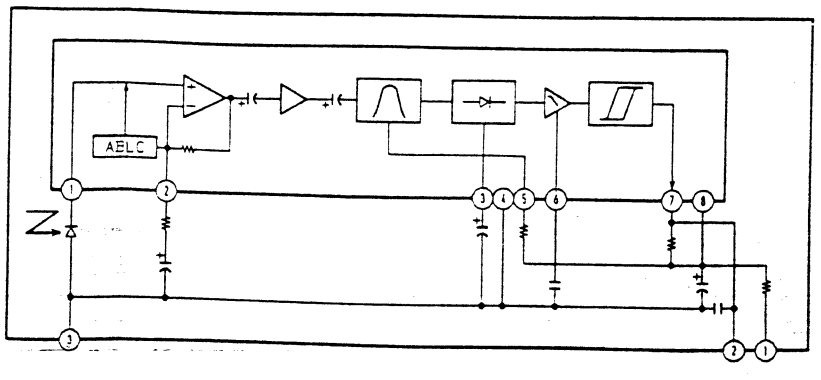

H1-1 6P RED :S-MICRO
TO D BOARD D-1
S1652
S1653
S1651 MODE
INIT 2
INIT 1
LC3
LC2
LC1
GND
H1-43 9P WHT :S-MICRO
TO J1 BOARD J1-43
R OUT
L OUT
VIDEO OUT
C OUT
Y OUT
H1-02
H1-23 4P BLK :S-MICRO
TO D BOARD D-23
L IN
R IN
H1-05
HP
LSP
RSP
H1
CONTROL SW, AV INPUT, HEADPHONE
H1-26 2P RED :S-MICRO
HP SW MUTE
TO K BOARD K-26
H1-4 4P WHT :S-MICRO
B-SS4119<AEP>-H1.


AC IN 220V-240V 50Hz
AC IN
NC
F-61 2P
F1601 T4.0A
S1701
F
(AC IN, POWER SW)
AC OUT
F-62 2P
TO D BOARD D-62
B-SS4114<AEP>-F..


J3
(SPEAKER TERMINAL)
J3-1
TO K BOARD K-3
AUDIO
LS - SW
GND
L200
C291 0.022 50V F
J-3 3P WHT-L :S-MICRO
B-SS4119<A

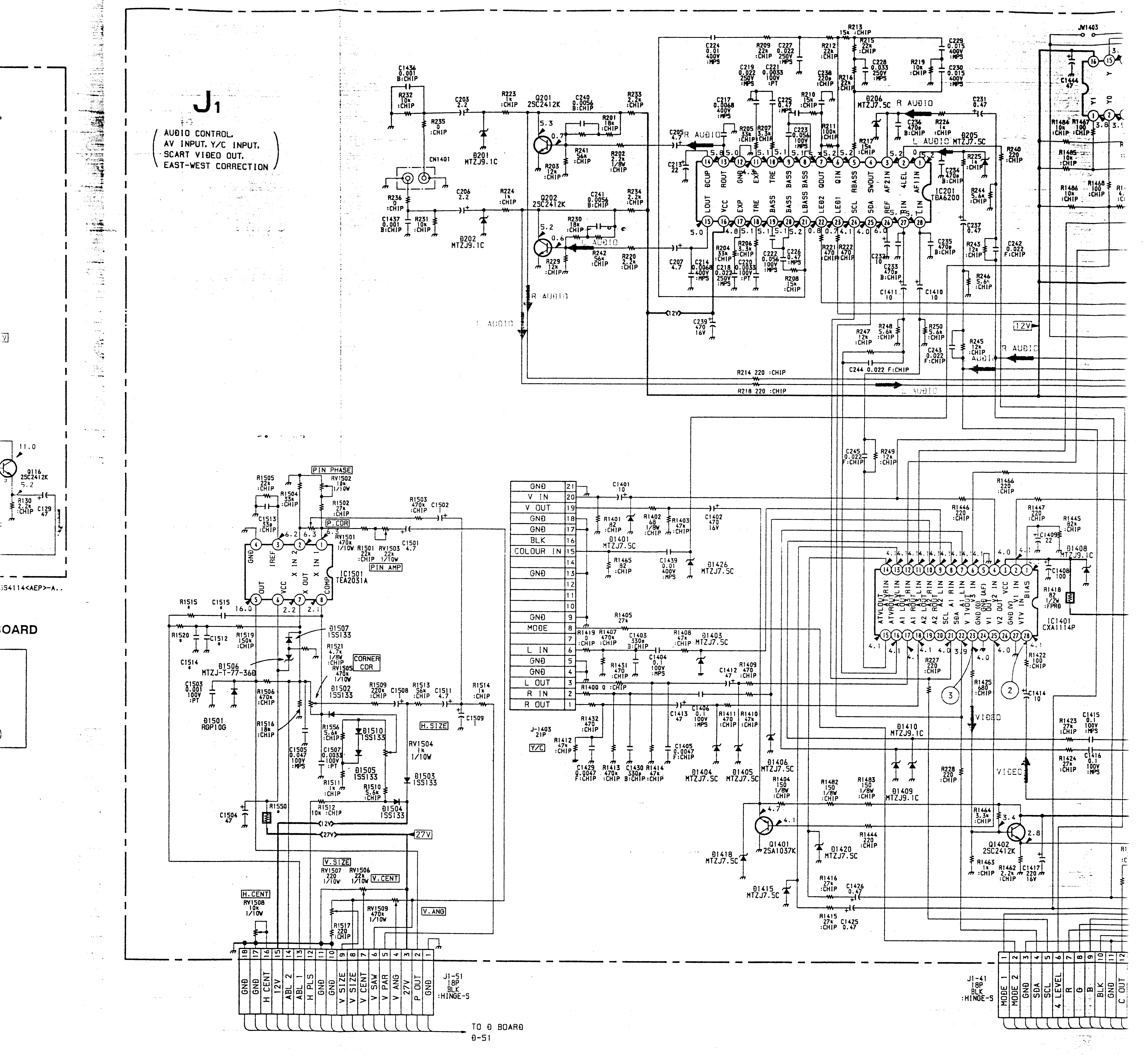

H2
(SIRCS RECEIVER, INDICATOR)
D1651 LD-201VR
D1652 LD-201VR
D1654 LD-201VR
RES
IC1651 SBX1610-11
5V
R1662 470
LED B
LED A
NC
RES.LED
GND
5V
SIRCS
H2-2 7P WHT :S-MICRO
TO D BOARD D-2

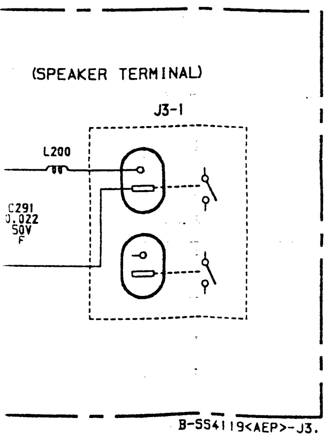
• H2 BOARD IC1651 SBX1610-11



• H2 BOARD

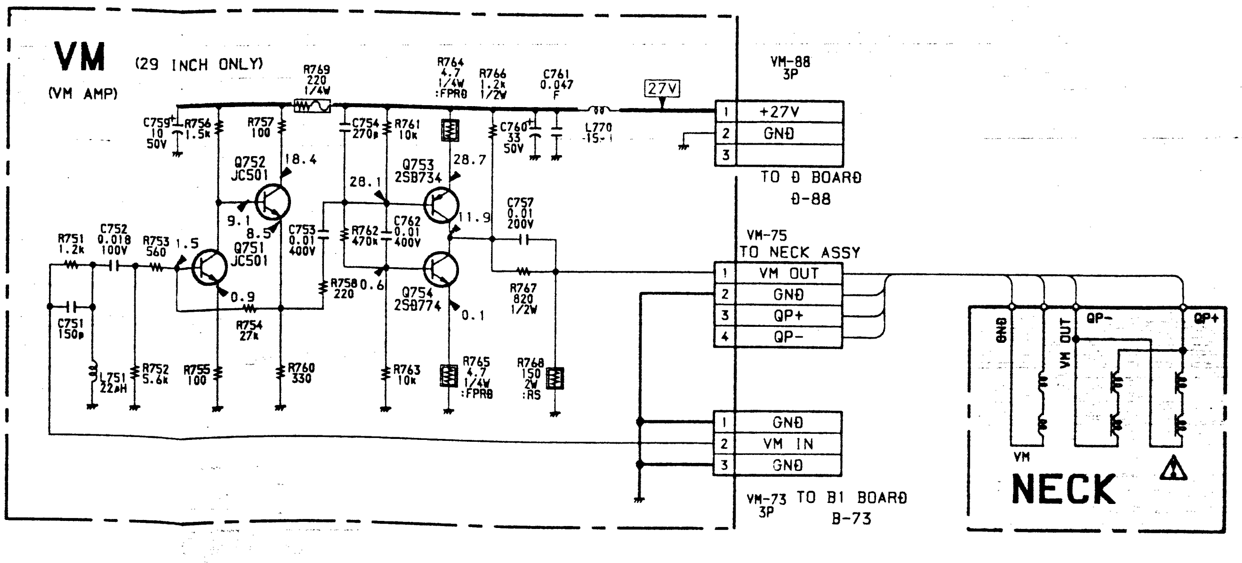
IC1651	SBX1610-11	INFRARED RECIEVER
D1651	LD-201VR	AUDIO CHANNEL A INDICATOR
D1652	LD-201VR	AUDIO CHANNEL B INDICATOR
D1654	LD-201VR	RESET

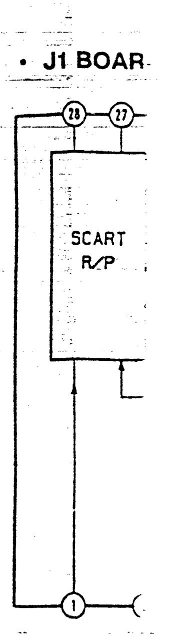

12
13
14
15
16
17
18
19
20
21
22
23
J1
AUDIO CONTROL,
AV INPUT, Y/C INPUT,
SCART VIDEO OUT,
EAST-WEST CORRECTION
IC201 TDA6200
IC1401 CXA1114P
IC1501 TEA2031A
Q201 2SC2412K
Q202 2SC2412K
Q1401 2SA1037K
Q1402 2SC2412K
Q116 2SC2412K
R AUDIO
L AUDIO
VIDEO
12V
27V
PIN PHASE
PIN AMP
P.COR
CORNER COR
H.SIZE
V.SIZE
V.CENT
H.CENT
V.ANG
GND
V IN
V OUT
BLK
COLOUR IN
MODE
L IN
L OUT
R IN
R OUT
J-1403 21P
Y/C
J1-51 18P BLK :HINGE-S
GND
GND
H CENT
12V
ABL 1
ABL 1
H PLS
GND
GND
V SIZE
V SIZE
V CENT
V SAW
V PAR
V ANG
27V
P OUT
GND
TO D BOARD D-51
J1-41 18P BLK :HINGE-S
MODE 1
MODE 2
GND
SDA
SCL
4 LEVEL
R
G
B
BLK
GND
C OUT
B-SS4114<AEP>-A..
BOARD

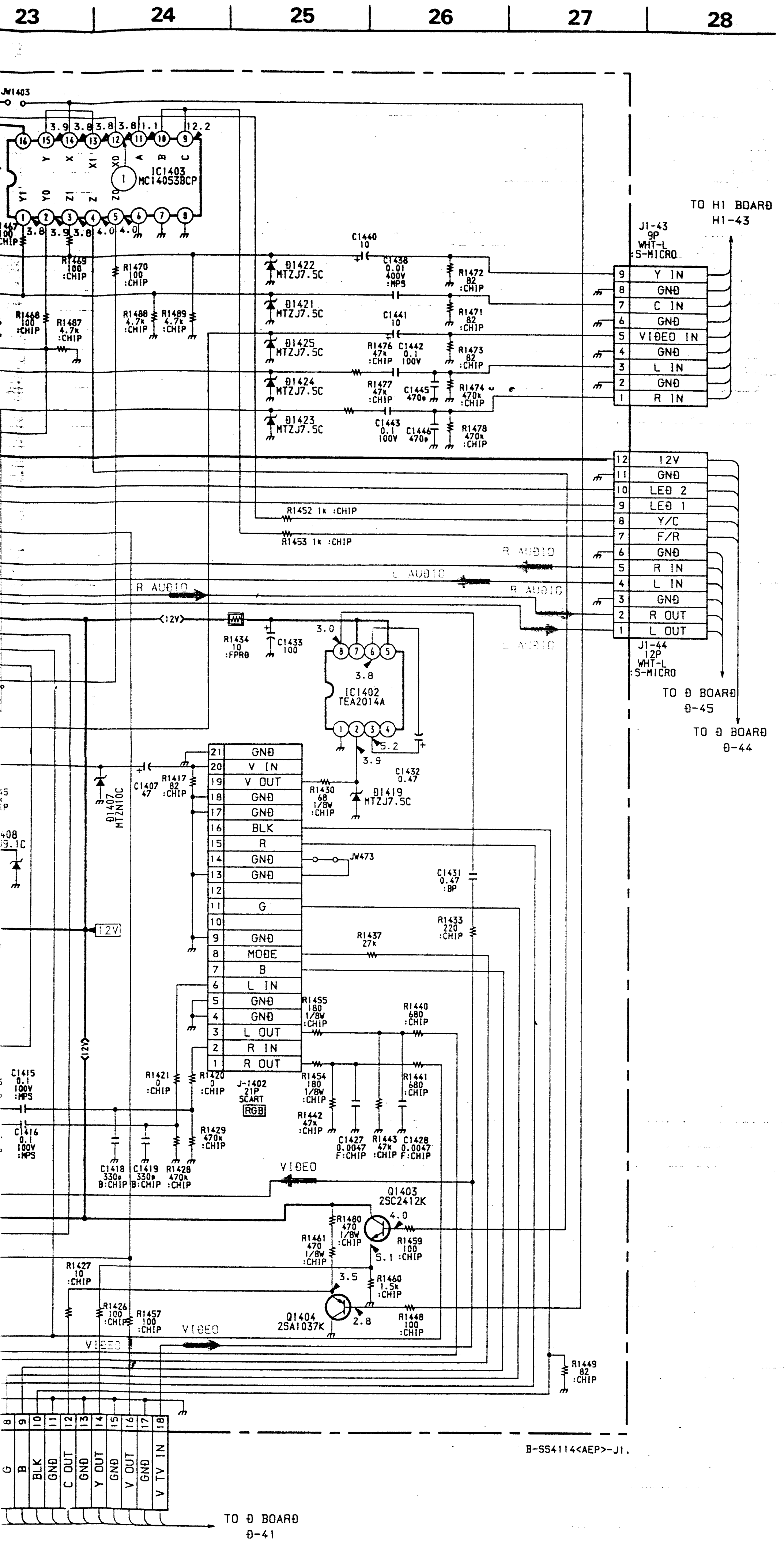

(SPEAKER TERMINAL)
J3-1
L200
C291 0.022 50V F
B-SS4119<AEP>-J3.

- VM BOARD

Q751	JC501	REF-AMP
Q752	JC501	REF-AMP
Q753	2SB734	PUSH-PULL OUT
Q754	2SD774	PUSH-PULL OUT


VM (29 INCH ONLY)
(VM AMP)
Q751 JC501
Q752 JC501
Q753 2SB734
Q754 2SD774
27V
VM-88 3P
+27V
GND
TO D BOARD D-88
VM-75
TO NECK ASSY
VM OUT
GND
QP+
QP-
GND
VM IN
GND
VM-73 3P TO B1 BOARD B-73
NECK
B-SS4119<AEP>-VM.

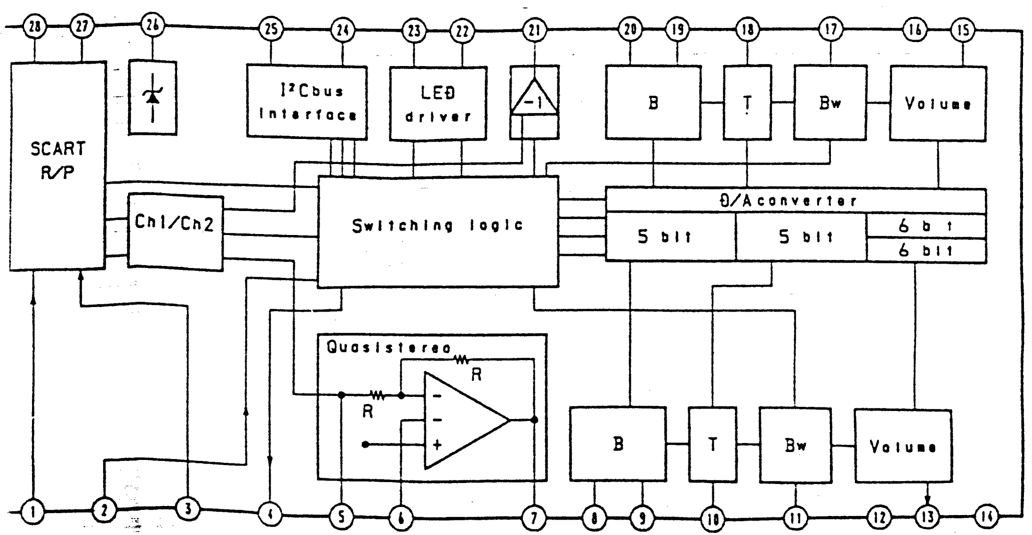

• J1 BOAR
SCART R/P


23
24
25
26
27
28
IC1403
MC14053BCP
TO H1 BOARD
H1-43
J1-43
9P
WHT-L
S-MICRO
Y IN
GND
C IN
GND
VIDEO IN
GND
L IN
GND
R IN
12V
GND
LED 2
LED 1
Y/C
F/R
GND
R IN
L IN
GND
R OUT
L OUT
J1-44
12P
WHT-L
S-MICRO
TO Ð BOARD
Ð-45
TO Ð BOARD
Ð-44
R AUDIO
L AUDIO
IC1402
TEA2014A
J-1402
21P
SCART
RGB
GND
V IN
V OUT
BLK
R
G
B
MODE
L IN
L OUT
R IN
R OUT
VIDEO
Q1403
2SC2412K
Q1404
2SA1037K
D1407
MTZN10C
D1419
MTZJ7.5C
D1421
D1422
D1423
D1424
D1425
MTZJ7.5C
12V
TO Ð BOARD
Ð-41
B-SS4114<AEP>-J1

J1 BOARD * MARK

	25″	29″
C1512	0.0068 400V	–
C1514	0.022 250V	–
C1515	820P	–
R1515	680K	–
R1520	470K	390K
R1550	JW	1 1W F

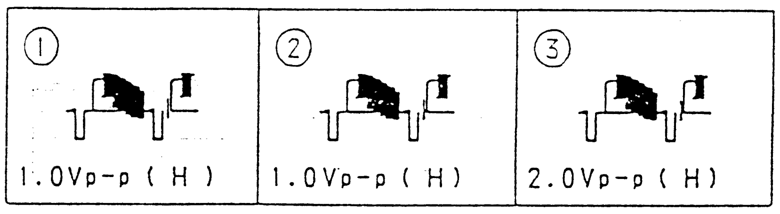
J1 BOARD IC201 TDA6200


SCART R/P
I²Cbus Interface
LED driver
-1
B
T
Bw
Volume
Ch1/Ch2
Switching logic
D/A converter
5 bit
5 bit
6 bit
6 bit
Quasistereo
R
R
B
T
Bw
Volume

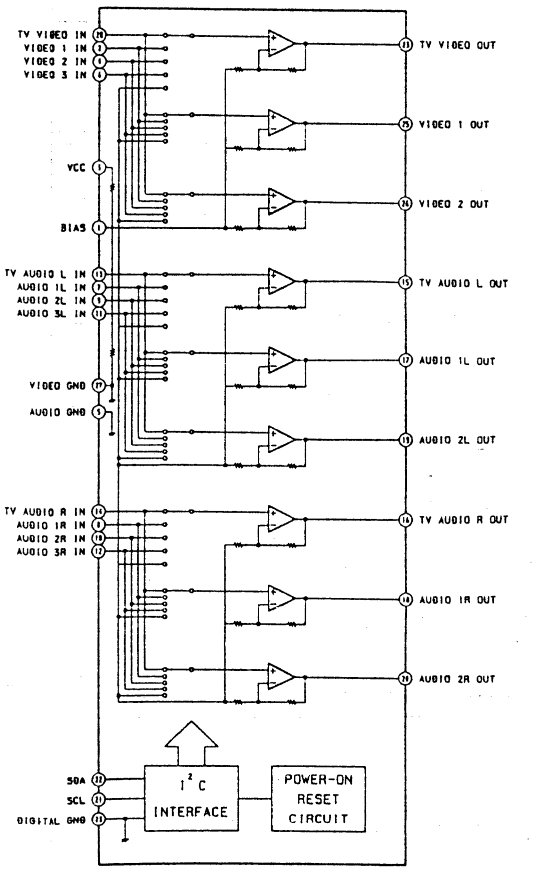
- **J1 BOARD**

IC201	TDA6200	AUDIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIDEO OUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST-WEST CORRECTION
Q201	2SC2412K	AUDIO R BUFF
Q202	2SC2412K	AUDIO L BUFF
Q1401	2SA1037K	VIDEO OUT
Q1402	2SC2412K	VIDEO OUT BUFF
Q1403	2SC2412K	Y OUT BUFF
Q1404	2SA1037K	C OUT BUFF
D201	MTZJ9.1C	PROTECT
D202	MTZJ9.1C	PROTECT
D205	MTZJ7.5C	PROTECT
D206	MTZJ7.5C	PROTECT
D1401	MTZJ7.5C	PROTECT
D1403	MTZJ7.5C	PROTECT
D1404	MTZJ7.5C	PROTECT
D1405	MTZJ7.5C	PROTECT
D1406	MTZJ7.5C	PROTECT
D1407	MTZN10C	PROTECT
D1408	MTZJ9.1C	REG
D1409	MTZJ9.1C	PROTECT
D1410	MTZJ9.1C	PROTECT
D1415	MTZJ7.5C	PROTECT
D1418	MTZJ7.5C	PROTECT
D1419	MTZJ7.5C	PROTECT
D1420	MTZJ7.5C	PROTECT
D1421	MTZJ7.5C	PROTECT
D1422	MTZJ7.5C	PROTECT
D1423	MTZJ7.5C	PROTECT
D1424	MTZJ7.5C	PROTECT
D1425	MTZJ7.5C	PROTECT
D1426	MTZJ7.5C	PROTECT
D1501	RGP10G	PROTECT
D1502	1SS133	DECOUPLING H SIZE
D1503	1SS133	CLIPPING V PARABORA
D1504	1SS133	CLIPPING H PULSE
D1505	1SS133	REG
D1506	MTZJ36D	PROTECT
D1507	1SS133	PROTECT
D1510	1SS133	REG

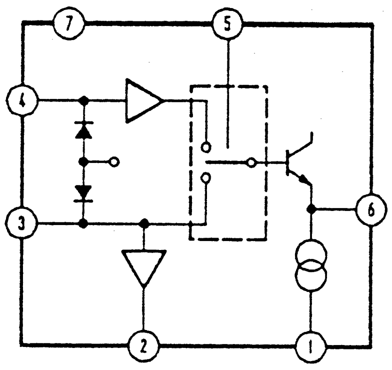
- **WAVEFORMS J1 BOARD**



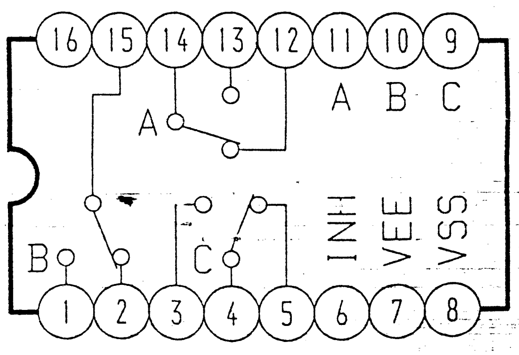
- **J1 BOARD IC1401 CXA1114P**


TV VIDEO IN
VIDEO 1 IN
VIDEO 2 IN
VIDEO 3 IN
VCC
BIAS
TV AUDIO L IN
AUDIO 1L IN
AUDIO 2L IN
AUDIO 3L IN
VIDEO GND
AUDIO GND
TV AUDIO R IN
AUDIO 1R IN
AUDIO 2R IN
AUDIO 3R IN
SDA
SCL
DIGITAL GND
TV VIDEO OUT
VIDEO 1 OUT
VIDEO 2 OUT
TV AUDIO L OUT
AUDIO 1L OUT
AUDIO 2L OUT
TV AUDIO R OUT
AUDIO 1R OUT
AUDIO 2R OUT
I²C INTERFACE
POWER-ON RESET CIRCUIT

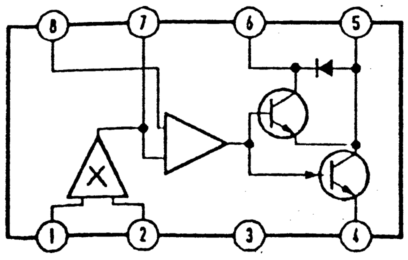
- **J1 BOARD IC1402 TEA2014A**



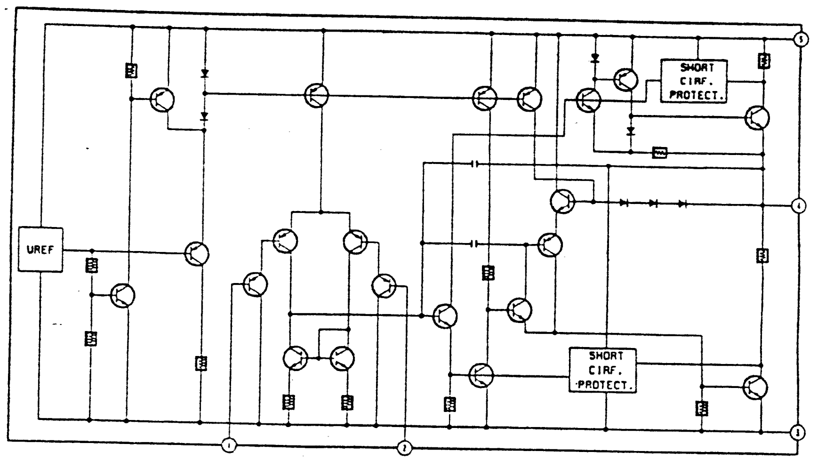
- **J1 BOARD IC1403 MC14053BCP**


16
15
14
13
12
11
10
9
A
B
C
A
B
C
INH
VEE
VSS
1
2
3
4
5
6
7
8

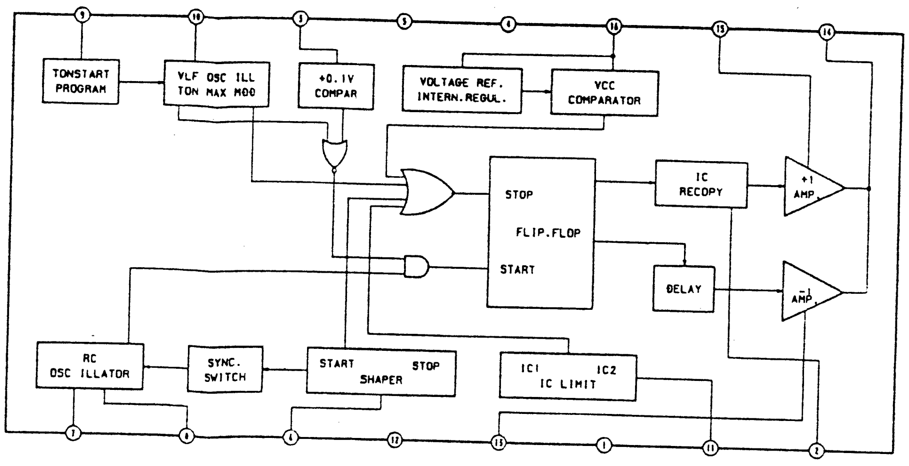
- **J1 BOARD IC1501 TEA2031A**



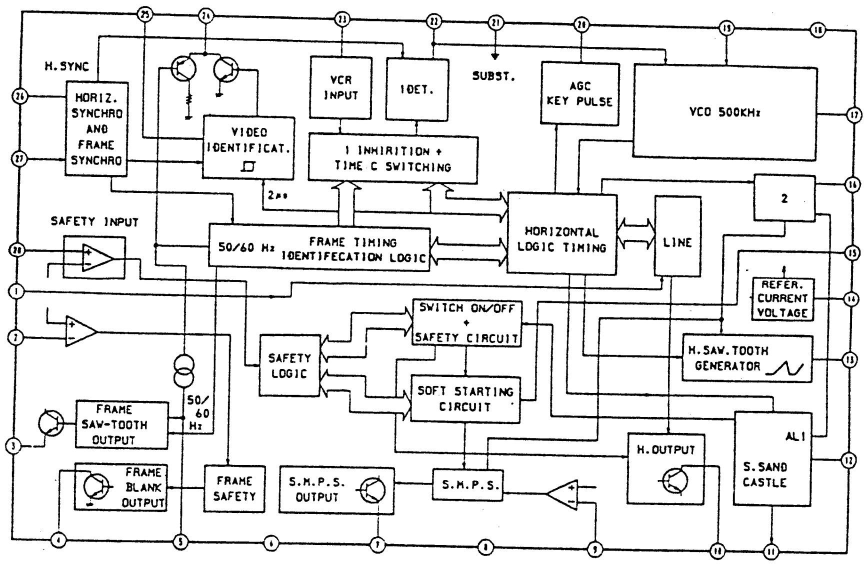
• D BOARD IC251/261 TDA2050


SHORT CIRC. PROTECT.
UREF
SHORT CIRC. PROTECT.

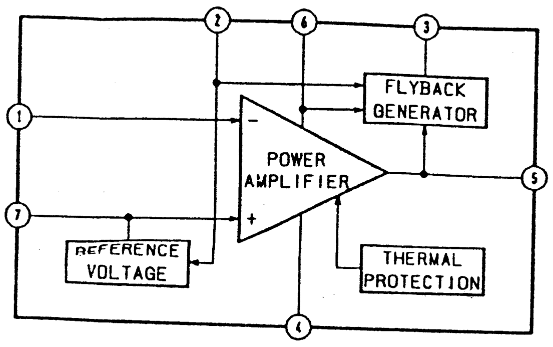
• D BOARD IC601 TEA2260


TONSTART PROGRAM
VLF OSC ILL TON MAX MOD
+0.1V COMPAR
VOLTAGE REF. INTERN. REGUL.
VCC COMPARATOR
STOP
FLIP.FLOP
START
IC RECOPY
+1 AMP
DELAY
AMP
RC OSC ILLATOR
SYNC. SWITCH
START STOP SHAPER
IC1 IC2 IC LIMIT

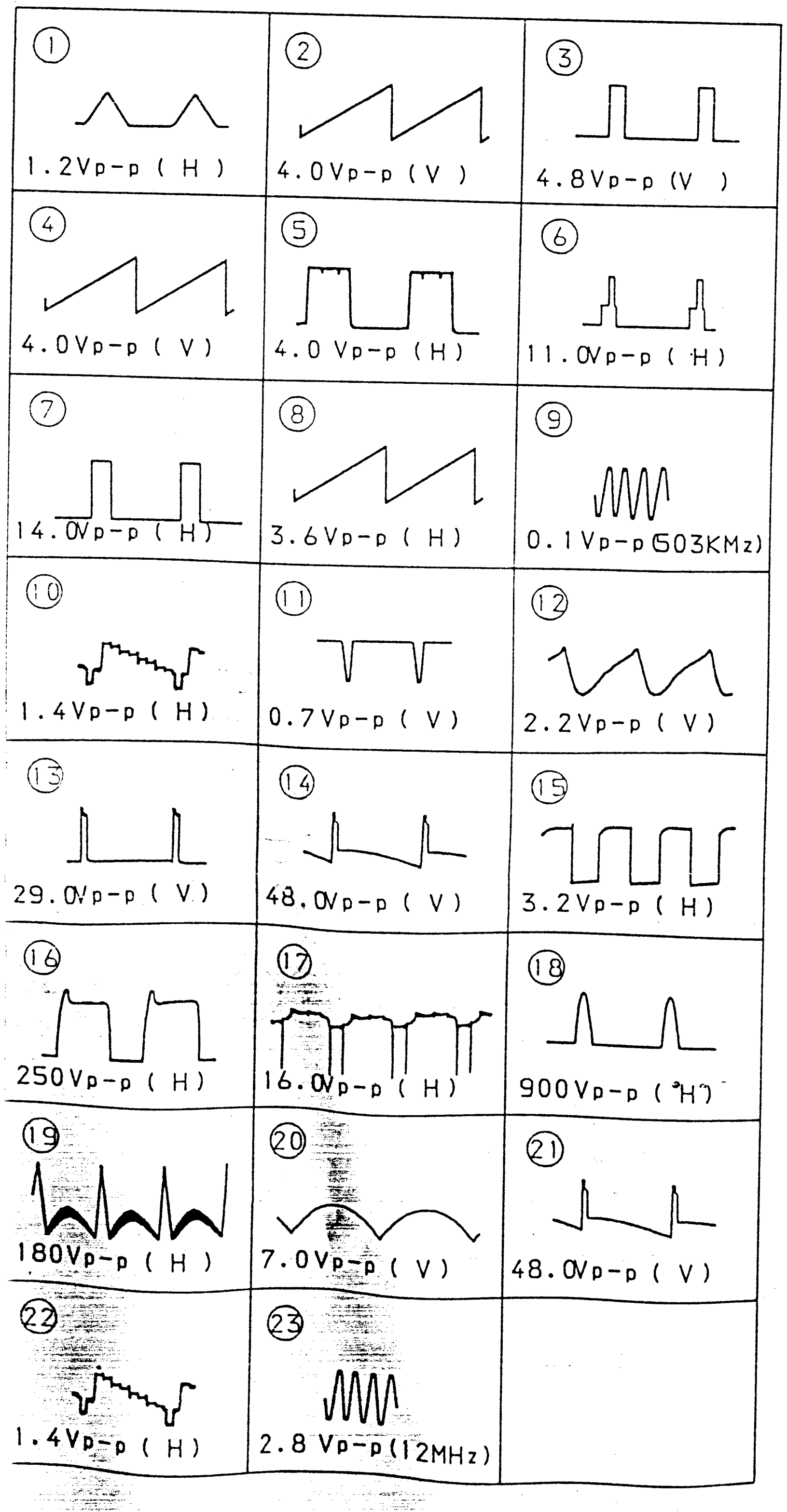
• D BOARD IC501 TEA2028B


H. SYNC
HORIZ. SYNCHRO AND FRAME SYNCHRO
VIDEO IDENTIFICAT.
VCR INPUT
IDET.
SUBST.
AGC KEY PULSE
VCO 500KHz
1 INHIBITION + TIME C SWITCHING
2××
SAFETY INPUT
50/60 Hz FRAME TIMING IDENTIFECATION LOGIC
HORIZONTAL LOGIC TIMING
LINE
2
REFER. CURRENT VOLTAGE
SWITCH ON/OFF + SAFETY CIRCUIT
SAFETY LOGIC
SOFT STARTING CIRCUIT
H. SAW. TOOTH GENERATOR
50/60 Hz
FRAME SAW-TOOTH OUTPUT
H. OUTPUT
ALI
S. SAND CASTLE
FRAME BLANK OUTPUT
FRAME SAFETY
S.M.P.S. OUTPUT
S.M.P.S.

• D BOARD IC502 TDA8170


FLYBACK GENERATOR
POWER AMPLIFIER
REFERENCE VOLTAGE
THERMAL PROTECTION

• WAVEFORMS D BOARD



D BOARD ＊ MARK

	25″	29″		25″	29″
C519	0.47	0.33	JW216	15mm	–
C526	27P	22P	JW229	10mm	–
C815	1 200V	0.82 200V			
C817	0.015 1.4KV	0.017 1.4KV	L801	–	3.9mH
C821	680P 2KV	470P 2KV	L806	DRAM CORE (CDI)	HCC DUST CORE 3.9mH
D-18	–	2.5MM PITCH	L810	PMC	PMT
D-88	–	3P			
			R077	–	1K
D271	MTZJ-12C	MTZJ-13B	R525	1K	–
D506	DA204K	–	R561	–	270K
D514	5mm JW	1SS133	R570	–	680
D515	–	1SS133	R607	4.7K	5.6K
			R631	27K 2W	–
JW202	–	5mm	R812	68K 1/2W	51K 1/2W
JW203	5mm	–	R5503	4.7	10
JW204	5mm	–	R5506	–	12K
JW205	–	5mm			
JW206	5mm	–			
JW207	5mm	–			

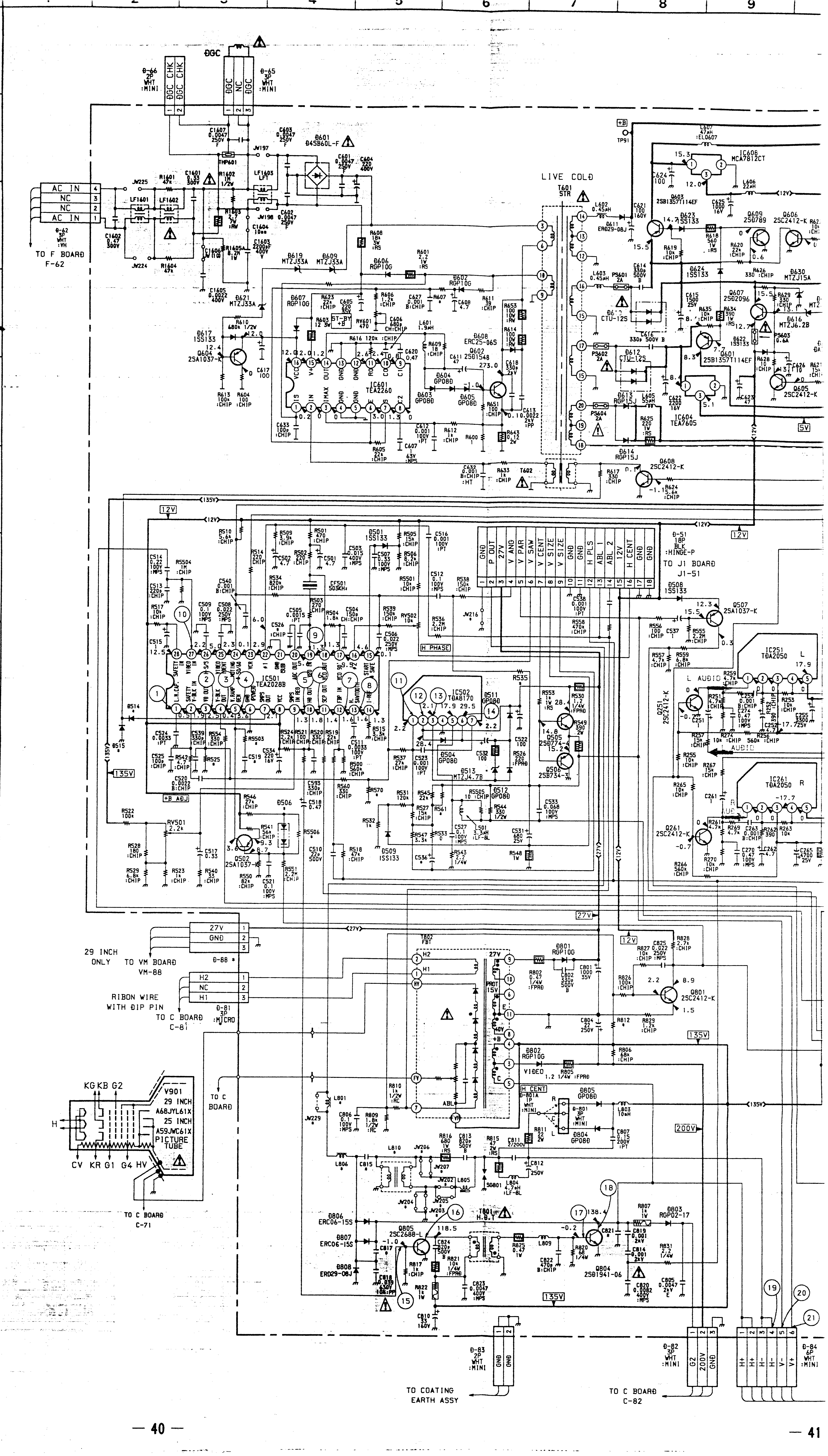
• D BOARD

IC001	SDA20560-A012	T
IC002	MC14051BCP	O
IC003	BA4558	A
IC005	SDA2546	M
IC251	TDA2050	A
IC261	TDA2050	A
IC501	TEA2028B	DE
IC502	TDA8170	V
IC601	TEA2260	P
IC604	TEA7605	+
IC608	MC7812CT	+
Q001	DTC144EK	50
Q002	DTC144EK	BL
Q003	2SA1037K	SY
Q004	2SA1037K	SY
Q005	DTC144EK	Y/
Q006	DTC144EK	FR
Q007	2SC2412K	MO
Q008	2SC2412K	MO
Q009	2SC2412K	MU
Q010	2SC2412K	RE
Q251	2SC2412K	AU
Q261	2SC2412K	AU
Q271	2SC2412K	VOL
Q502	2SA1037K	CO
Q505	2SD774-4	V C
Q506	2SB734-3	V C
Q507	2SA1037K	CA
Q598	2SA1037K	VID
Q601	2SB1357T114EF	STB
Q602	2SD1548	REG
Q603	2SB1357T114EF	STB
Q604	2SA1037K	FAS
Q605	2SC2412K	STB
Q606	2SC2412K	STB
Q607	2SD2096	+ 12
Q608	2SC2412K	STB
Q609	2SD789-3	STB
Q801	2SC2412K	ABL
Q804	2SD1941-06	H O
Q805	2SC2688-L	H D
D001	MTZJ6.8C	PROT
D002	MTZJ6.8C	PROT
D003	1SS133	HUE
D005	MTZJ5.6B	PROT
D006	MTZJ33A	VC V
D007	MTZJ3.9B	PLOT
D009	MTZJ5.6B	CLIP
D010	MTZJ6.2B	PROT
D011	MTZJ6.2B	PROT
D012	1SS133	PROT
D013	MTZJ6.8C	PROT
D271	MTZJ13B	VOLT
D272	1SS133	DECOU
D501	1SS133	START
D504	GP08D	V PUL
D506	DA204K	CURR
D508	1SS133	CANAL
D509	1SS133	V LIN
D511	GP08D	PROT
D512	GP08D	PROT
D513	MTZJ4.7B	PROT
D514	1SS133	PROT
D515	1SS133	PROT
D601	D4SB60L-F	AC RE
D602	RGP10G	REF R
D603	GP08D	SMPS
D604	GP08D	SMPS
D605	GP08D	SMPS
D606	RGP10G	+ 12V
D607	RGP10G	REF RE
D608	ERC25-06S	PLUSE
D609	MTZJ33A	FAST C
D610	CTU-12S	+ 14V
D611	ERD29-08J	+ 135V
D612	CTU-12S	+ 7V R
D613	RGP15J	AF V F
D614	RGP15J	AF V R
D616	MTZJ6.2B	+ 12V F
D617	1SS133	PROT
D618	MTZJ5.6B	+ 12V F
D619	MTZJ33A	FAST C
D620	DA204K	+ 12V F
D621	MTZJ33A	FAST O
D622	1SS133	PROT
D623	1SS133	DECOUPL
D624	1SS133	DECOUPL
D630	MTZJ15A	+ 12V F
D801	RGP10G	+ 27V R
D802	RGP10G	+ 200V
D803	RGP02-17	G2 RECT
D804	GP08D	H CENTE
D805	GP08D	H CENTE
D806	ERC06-15S	H DAMP
D807	ERC06-15S	H DAMP
D808	ERD29-08J	PIN DAM

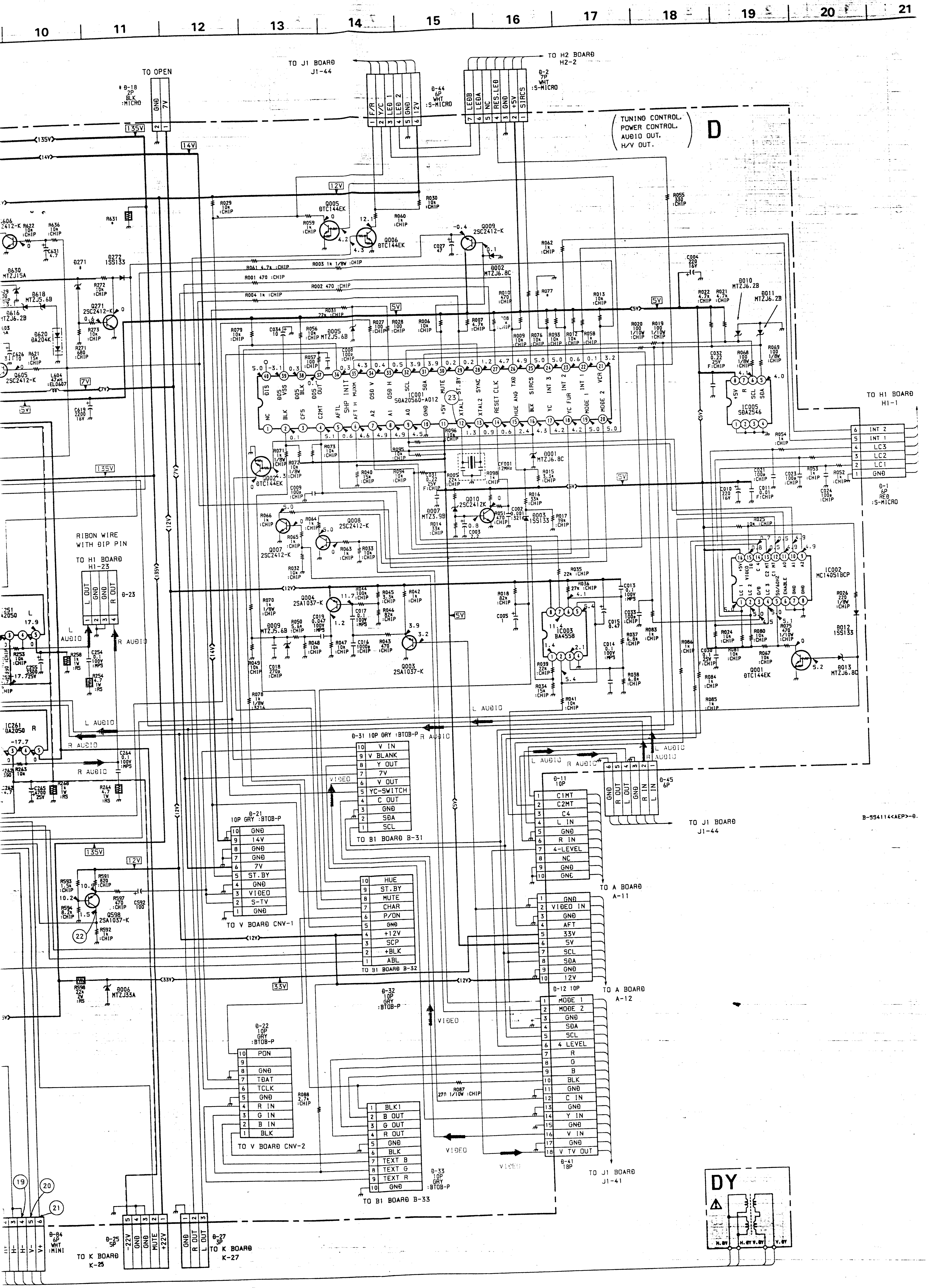
UNING CTL
N SCREEN DISPLAY
FT COMPARATOR
Y MEMORY
UDIO OUT (L)
UDIO OUT (R)
EFLECTION PROCESSOR
OUT
RIMARY SMRS CTL
5V REG
12V REG

0/60Hz SW
LK SW
YNC SEPARATOR
YNC SEPARATOR
/C SW
RONT/REAR SW
ODE 2 SW
ODE 1 SW
UTE SW
ESET
UDIO MUTE
UDO MUTE
OLTAGE DETECT
ONSTANT CURRENT SOURCE
CENT
CENT
ANAL + BLK
IDEO AMP
TBY SW
EG OUT
TBY SW
AST ON/OFF
TBY SW
TBY SW
12V REG
TBY SW
TBY SW
BL AMP
OUT
DRIVER

ROTECT
ROTECT
JE CTL
ROT
C VOLTAGE REGULATION
LOT RESET
LIPPING SYNC LEVEL
ROT
ROT
ROT
ROT
OLTAGE DETECT
ECOUPLING MUTE AUDIO
TART
PULSE OUT
URRENT (25 INCH ONLY)
ANAL + BLK LEVEL
LIN
OT
OT
OT
OT (29 INCH ONLY)
OT (29 INCH ONLY)
RECT
F RECT
IPS DRIVE 1
IPS DRIVE 2
IPS DRIVE 3
2V RECT
F RECT
USE CLIPPER
ST ON/OFF
4V RECT
35V RECT
V RECT
V RECT 1
V RECT 2
2V REG
OT
2V REF
ST ON/OFF 2
2V REF
ST ON/OFF 3
OT
COUPLING STBY
COUPLING STBY
2V RECT
7V RECT
00V RECT
RECT
CENTER 1
CENTER 2
DAMPER 1
DAMPER 2
DAMPER

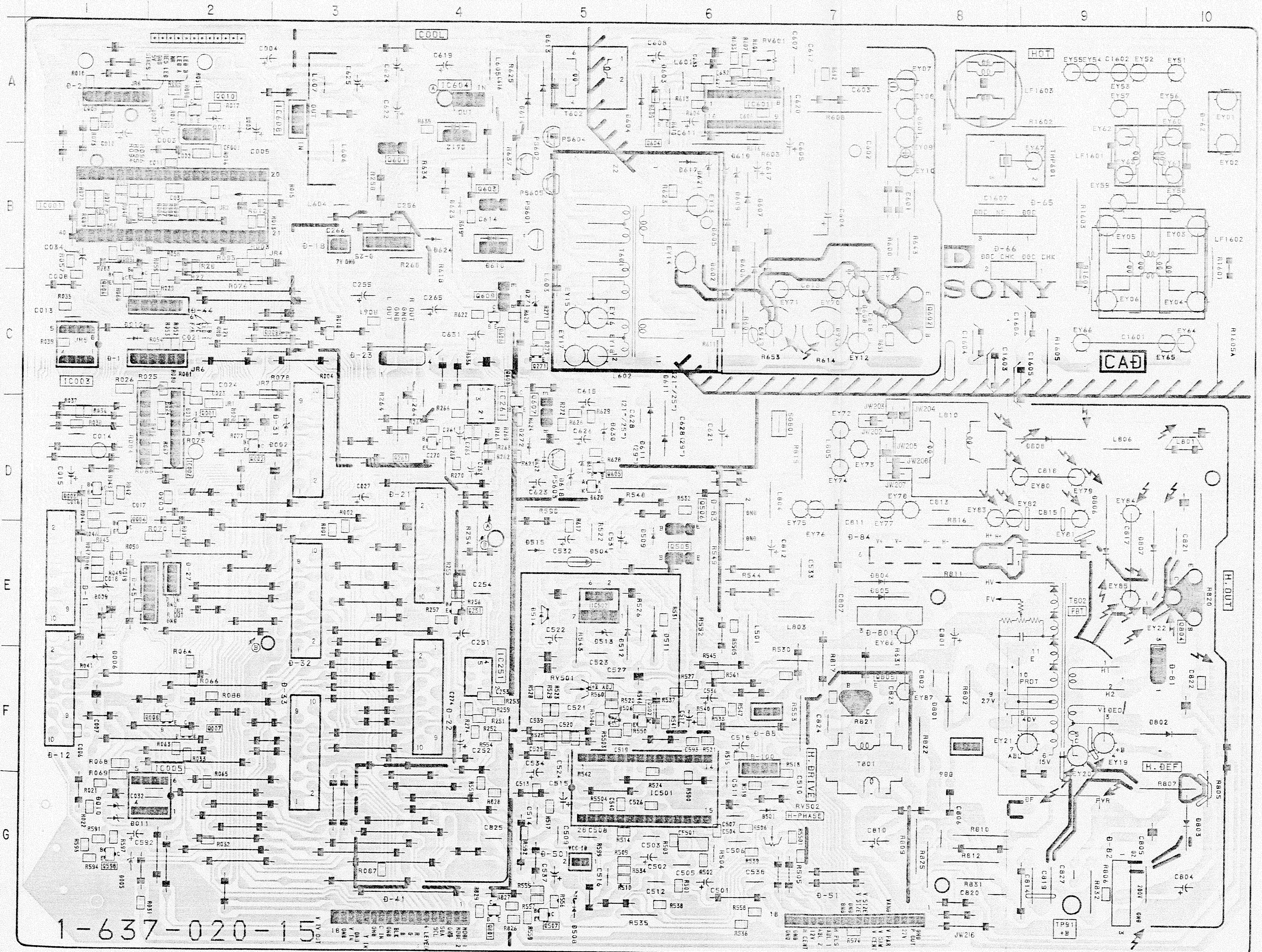


1 2 3 4 5 6 7 8 9
A B C D E F G H I J K L M N O P
ÐGC
Ð-66 2P WHT :MINI
Ð-65 3P WHT :MINI
ÐGC CHK
ÐGC NC
AC IN
NC
TO F BOARÐ F-62
Ð-62 3P WHT :VH
LF1601
LF1602
LF1603 LFT
THP601
Ð601 Ð4SB60L-F
LIVE COLÐ
T601 STR
IC606 MCA7812CT
IC601 TEA2260
IC604 TEA7605
Ð612 CTU-12S
Ð613 CTU-12S
Q603 2SB1357T114EF
Q601 2SB1357T114EF
Q604 2SA1037-K
Q602 2SD1548
Q608 2SC2412-K
Q605 2SC2412-K
Q606 2SC2412-K
Q607 2SD2096
Q609 2SD789
T602
IC501 TEA2028B
IC502 TDA8170
IC251 TDA2050 L
IC261 TDA2050 R
L AUDIO
AUDIO
CF501 503KHz
H PHASE
+B ADJ
Ð-51 18P BLK :HINGE-P
TO J1 BOARÐ J1-51
GNÐ
P OUT
27V
V ANG
V PAR
V SAW
V CENT
V SIZE
H SIZE
H PLS
ABL 1
ABL 2
12V
H CENT
Q501 2SA1037-K
Q502 2SA1037-K
Q505 2SD774-4
Q506 2SB734-3
Q507 2SA1037-K
Q251 2SC2412-K
Q261 2SC2412-K
135V
12V
27V
200V
5V
+B
TP91
27V GNÐ
29 INCH ONLY
TO VM BOARÐ VM-88
Ð-88
H2 NC H1
RIBON WIRE WITH ÐIP PIN
TO C BOARÐ C-81
Ð-81 3P MICRO
T802 FBT
PROT 15V
ABL
VIÐEO
H CENT
Ð-801A 3P WHT :MINI
Q801 2SC2412-K
KG KB G2
V901
29 INCH A68JYL61X
25 INCH A59JWC61X
PICTURE TUBE
H
CV KR G1 G4 HV
TO C BOARÐ C-71
TO C BOARÐ
Q805 2SC2688-L
Q804 2SD1941-06
T801 H.ÐY
Ð806 ERC06-15S
Ð807 ERC06-15S
Ð808 ERÐ29-08J
Ð803 RGP02-17
Ð-83 2P WHT :MINI
GNÐ GNÐ
TO COATING EARTH ASSY
Ð-82 3P WHT :MINI
G2 200V GNÐ
TO C BOARÐ C-82
Ð-84 6P WHT :MINI
H+ H+ H- H- V- V+


10
11
12
13
14
15
16
17
18
19
20
21
TO OPEN
TO J1 BOARD J1-44
TO H2 BOARD H2-2
TUNING CONTROL,
POWER CONTROL,
AUDIO OUT,
H/V OUT.
D
IC001 SDA20560-A012
IC005 SDA2546
IC002 MC14051BCP
IC003 BA4558
TO H1 BOARD H1-1
INT 2
INT 1
LC3
LC2
LC1
GND
RIBON WIRE WITH DIP PIN
TO H1 BOARD H1-23
L OUT
GND
GND
R OUT
L AUDIO
R AUDIO
135V
14V
12V
7V
5V
33V
TO B1 BOARD B-31
V IN
V BLANK
Y OUT
V OUT
YC-SWITCH
C OUT
SDA
SCL
TO B1 BOARD B-32
HUE
ST.BY
MUTE
CHAR
P/ON
+12V
SCP
+BLK
ABL
TO V BOARD CNV-1
S-TV
VIDEO
TO V BOARD CNV-2
PON
TDAT
TCLK
R IN
G IN
B IN
BLK
TO B1 BOARD B-33
BLK1
B OUT
G OUT
R OUT
TEXT B
TEXT G
TEXT R
TO A BOARD A-11
C1MT
C2MT
C4
L IN
4-LEVEL
NC
VIDEO IN
AFT
TO A BOARD A-12
MODE 1
MODE 2
4 LEVEL
C IN
Y IN
V TV OUT
TO J1 BOARD J1-41
TO K BOARD K-25
-22V
+22V
TO K BOARD K-27
DY
H.DY
V.DY
B-554114<AEP>-B.

D [TUNING CONTROL, POWER CONTROL, AUDIO OUT, H/V OUT]

– D Board –



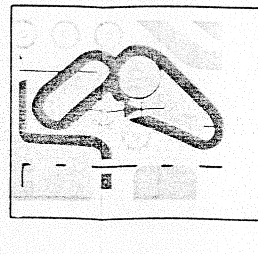
IC	
IC001	B – 2
IC002	D – 2
IC003	C – 1
IC005	G – 2
IC251	F – 4
IC261	D – 4
IC501	G – 6
IC502	E – 5
IC601	A – 6
IC604	A – 4
IC608	A – 3

TRANSISTOR	
Q001	D – 2
Q002	D – 2
Q003	D – 1
Q004	E – 1
Q005	C – 1
Q006	C – 1
Q007	F – 2
Q008	F – 2
Q009	C – 3
Q010	A – 2
Q251	E – 4
Q261	D – 4
Q271	C – 5
Q502	F – 6
Q505	E – 6
Q506	E – 6
Q507	G – 5
Q598	G – 1
Q601	B – 3
Q602	C – 8
Q603	B – 4
Q604	A – 6
Q605	D – 5
Q606	C – 4
Q607	D – 5
Q608	C – 4
Q609	C – 4
Q801	G – 4
Q804	E – 10
Q805	F – 7

DIODE	
D001	A – 2
D002	D – 3
D003	A – 2
D005	G – 1
D006	F – 1
D007	A – 2
D009	E – 1
D010	G – 1
D011	G – 1
D012	C – 1
D013	D – 2
D271	C – 5
D272	D – 5
D501	G – 7
D504	E – 5
D508	G – 5
D509	E – 6
D511	E – 6
D512	E – 5
D513	E – 5
D514	E – 5
D515	E – 5
D601	A – 8
D602	C – 6
D603	A – 6
D604	A – 5
D605	B – 6
D606	B – 6
D607	B – 6
D608	C – 7
D609	B – 6
D610	B – 4
D611	D – 6
D612	A – 4
D613	A – 5
D614	A – 5
D616	D – 5
D617	B – 6
D618	D – 5
D619	B – 6
D620	D – 5
D621	B – 6
D622	D – 5
D623	B – 4
D624	B – 4
D630	D – 5
D801	F – 8
D802	F – 10
D803	G – 3
D804	E – 7
D805	E – 7
D806	E – 9
D807	E – 10
D808	D – 9

VARIABLE RESISTOR	
RV501	F – 5
RV502	G – 7
RV601	A – 6

TP	
TP91	G – 9

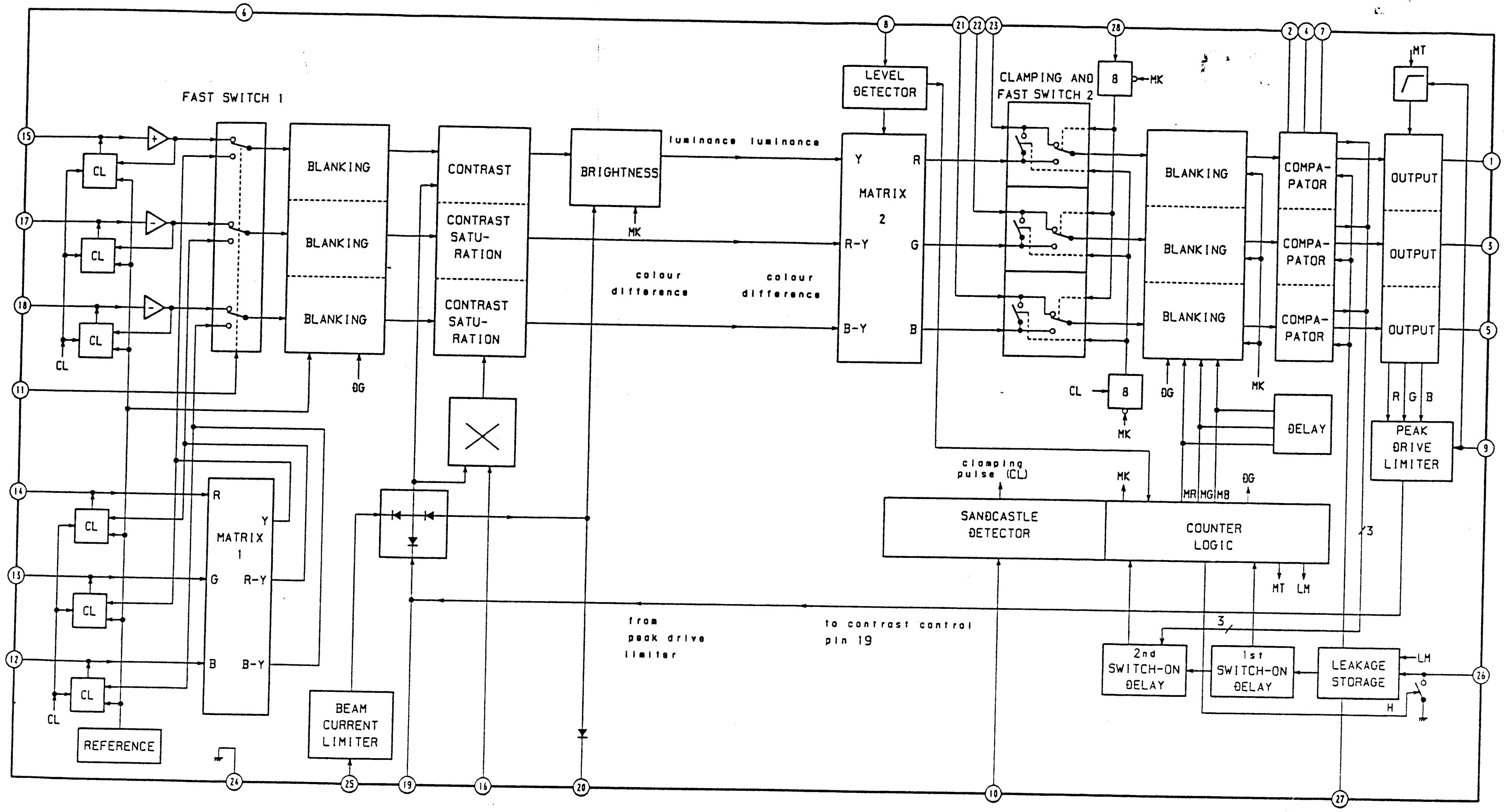


NOTE
The c
600 V
inspec

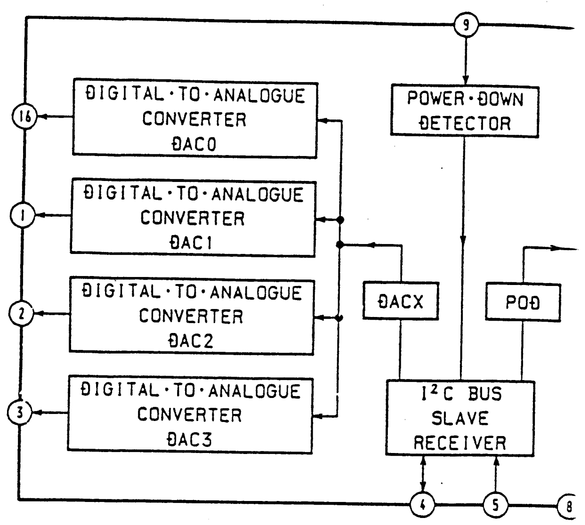
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

47

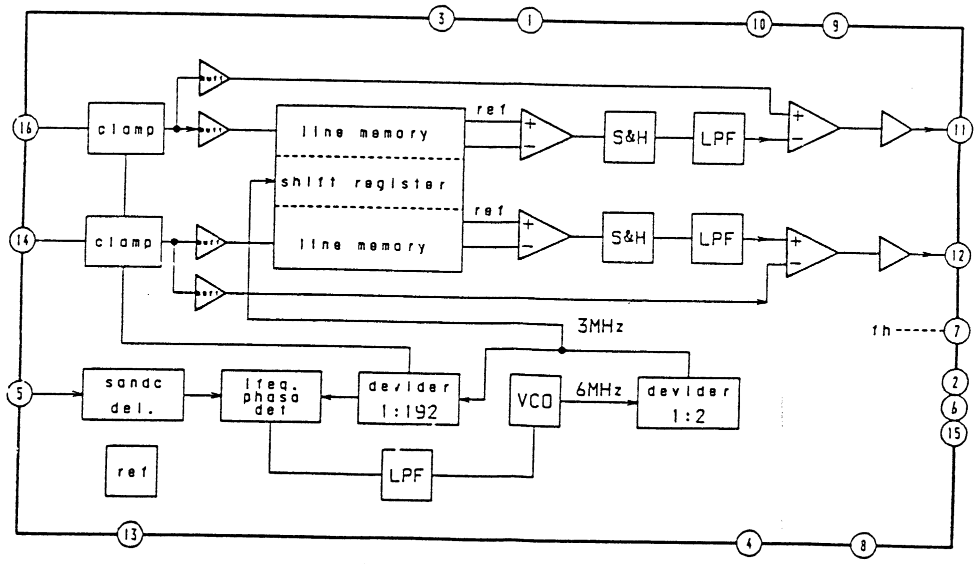
- **B1 BOARD IC301 TDA4580-V7**


FAST SWITCH 1
CL
BLANKING
BLANKING
BLANKING
CONTRAST
CONTRAST SATU-RATION
CONTRAST SATU-RATION
BRIGHTNESS
MK
luminance
luminance
colour difference
colour difference
LEVEL DETECTOR
Y
MATRIX 2
R-Y
B-Y
R
G
B
CLAMPING AND FAST SWITCH 2
8
MK
BLANKING
BLANKING
BLANKING
COMPA-PATOR
COMPA-PATOR
COMPA-PATOR
MT
OUTPUT
OUTPUT
OUTPUT
R G B
PEAK DRIVE LIMITER
DELAY
ØG
CL
8
ØG
MK
clamping pulse (CL)
MK
ØG
MR MG MB
SANDCASTLE DETECTOR
COUNTER LOGIC
3
MT LM
3
R
Y
MATRIX 1
G
R-Y
B
B-Y
CL
REFERENCE
BEAM CURRENT LIMITER
from peak drive limiter
to contrast control pin 19
2nd SWITCH-ON DELAY
1st SWITCH-ON DELAY
LEAKAGE STORAGE
LM
H
6
8
21 22 23
28
2 4 7
15
17
18
11
14
13
12
1
3
5
9
26
24
25
19
16
20
10
27

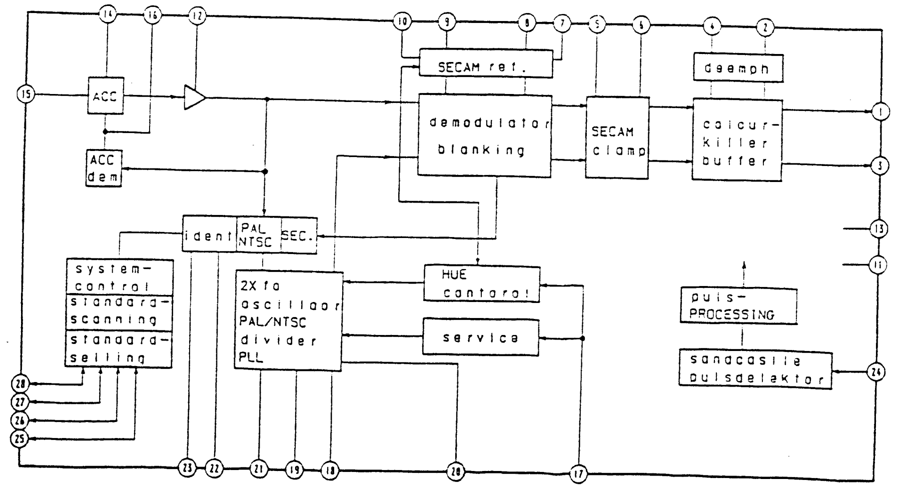
- **B1 BOARD IC302 TDA8442-N3**


9
DIGITAL-TO-ANALOGUE CONVERTER DAC0
DIGITAL-TO-ANALOGUE CONVERTER DAC1
DIGITAL-TO-ANALOGUE CONVERTER DAC2
DIGITAL-TO-ANALOGUE CONVERTER DAC3
POWER-DOWN DETECTOR
DACX
POD
I²C BUS SLAVE RECEIVER
16
1
2
3
4
5
8

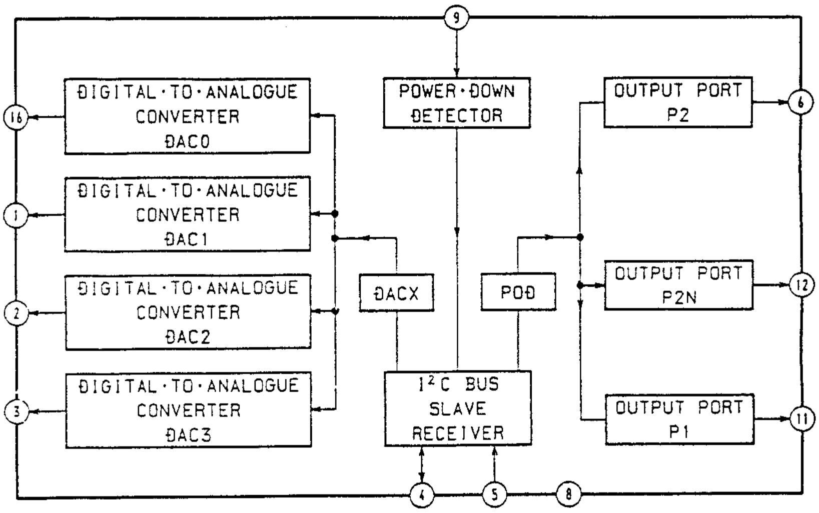
- **B1 BOARD IC303 TDA4660T**


3
1
10
9
16
clamp
line memory
shift register
line memory
ref
ref
S&H
LPF
S&H
LPF
14
clamp
11
12
3MHz
fh
7
2
6
15
5
sandc del.
freq. phase det
devider 1:192
VCO
6MHz
devider 1:2
ref
LPF
13
4
8

- **B1 BOARD IC304 TDA4650WP**


14
16
12
10
9
8
7
5
6
4
2
15
ACC
ACC dem
SECAM ref.
demodulator blanking
SECAM clamp
deemph
colour-killer buffer
1
3
ident
PAL NTSC
SEC.
13
11
system-control
standard-scanning
standard-selling
2X fo oscillaor PAL/NTSC divider PLL
HUE contorol
service
puls-PROCESSING
sandcasile pulsdelektor
24
28
27
26
25
23
22
21
19
18
20
17

- **B1 BOARD IC302 TDA8442-N3**



DIGITAL·TO·ANALOGUE CONVERTER DAC0
DIGITAL·TO·ANALOGUE CONVERTER DAC1
DIGITAL·TO·ANALOGUE CONVERTER DAC2
DIGITAL·TO·ANALOGUE CONVERTER DAC3
POWER·DOWN DETECTOR
DACX
POD
I²C BUS SLAVE RECEIVER
OUTPUT PORT P2
OUTPUT PORT P2N
OUTPUT PORT P1
9
16
1
2
3
6
12
11
4
5
8

IC	
IC301	F - 3
IC302	D - 4
IC303	D - 7
IC304	D - 9
IC305	C - 4
IC306	F - 9
IC308	F - 2
IC310	A - 7
IC311	A - 6
IC312	A - 9
IC313	A - 8
IC315	A - 9

TRANSISTOR	
Q301	G - 3
Q302	G - 3
Q303	G - 3
Q304	G - 4
Q305	E - 4
Q306	G - 2
Q307	G - 4
Q308	F - 3
Q310	C - 1
Q311	C - 2
Q320	D - 3
Q321	C - 3
Q322	C - 3
Q323	C - 3
Q324	C - 3
Q327	F - 1
Q328	G - 1
Q329	G - 1
Q330	G - 2
Q331	F - 1
Q332	G - 2
Q333	F - 2
Q334	D - 2
Q335	D - 1
Q336	D - 2
Q337	D - 2
Q338	E - 1
Q339	E - 2
Q340	F - 2
Q341	E - 1
Q342	E - 2
Q343	F - 1
Q344	E - 1
Q345	F - 1
Q346	D - 3
Q347	F - 1
Q348	F - 2
Q350	B - 3
Q352	B - 2
Q353	B - 1
Q354	B - 1
Q355	C - 2
Q356	C - 1
Q357	B - 1
Q358	B - 1
Q359	B - 1
Q360	B - 3
Q361	C - 3
Q362	B - 4
Q363	B - 5
Q364	B - 5
Q365	A - 5
Q366	D - 3
Q367	E - 8
Q368	E - 8
Q369	E - 8
Q370	E - 8
Q371	D - 7
Q372	D - 7
Q373	E - 8
Q1301	E - 3
Q1302	E - 3
Q1303	F - 3

DIODE	
D301	E - 7
D304	G - 6
D305	F - 6
D307	F - 8
D308	F - 8
D309	F - 8
D310	E - 7
D311	E - 7
D312	E - 7
D314	E - 7
D318	E - 7
D319	E - 7
D320	E - 7
D321	D - 7
D322	F - 2
D330	D - 7
D331	F - 8
D333	E - 9
D336	C - 9
D340	B - 9
D341	B - 9

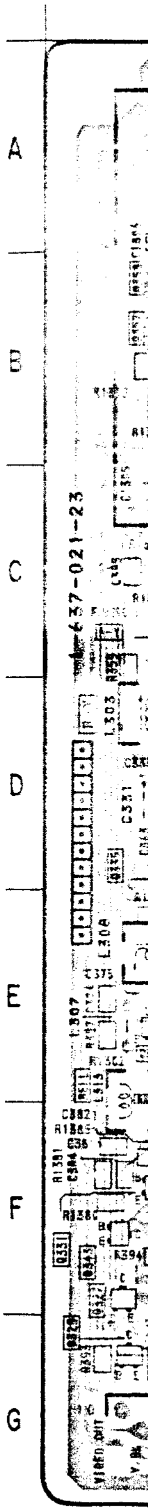
VARIABLE RESISTOR	
RV301	C - 9

TRIMMER	
CT301	C - 8
CT302	C - 8

COIL	
L303	D - 9
L308	E - 9
L312	E - 9
L313	F - 9

B1

- B1 Board -



A
B
C
D
E
F
G
437-021-23

B1 [VIDEO PROCESSOR, COLOR PROCESSOR, Y/C SW, D/A CONVERTER, MEMORY, A/D CONVERTER] K [AUDIO OUT]

IC	
IC301	F – 3
IC302	D – 4
IC303	D – 7
IC304	D – 9
IC305	C – 4
IC306	F – 9
IC308	F – 2
IC310	A – 7
IC311	A – 6
IC312	A – 9
IC313	A – 8
IC315	A – 9

TRANSISTOR	
Q301	G – 3
Q302	G – 3
Q303	G – 3
Q304	G – 4
Q305	E – 4
Q306	G – 2
Q307	G – 4
Q308	F – 3
Q310	C – 1
Q311	C – 2
Q320	D – 3
Q321	C – 3
Q322	C – 3
Q323	C – 3
Q324	C – 3
Q327	F – 1
Q328	G – 1
Q329	G – 1
Q330	G – 2
Q331	F – 1
Q332	G – 2
Q333	F – 2
Q334	D – 2
Q335	D – 1
Q336	D – 2
Q337	D – 2
Q338	E – 1
Q339	E – 2
Q340	F – 2
Q341	E – 1
Q342	E – 2
Q343	F – 1
Q344	E – 1
Q345	F – 1
Q346	D – 3
Q347	F – 1
Q348	F – 2
Q350	B – 3
Q352	B – 2
Q353	B – 1
Q354	B – 1
Q355	C – 2
Q356	C – 1
Q357	B – 1
Q358	B – 1
Q359	B – 1
Q360	B – 3
Q361	C – 3
Q362	B – 4
Q363	B – 5
Q364	B – 5
Q365	A – 5
Q366	D – 3
Q367	E – 8
Q368	E – 8
Q369	E – 8
Q370	E – 8
Q371	D – 7
Q372	D – 7
Q373	E – 8
Q1301	E – 3
Q1302	E – 3
Q1303	F – 3

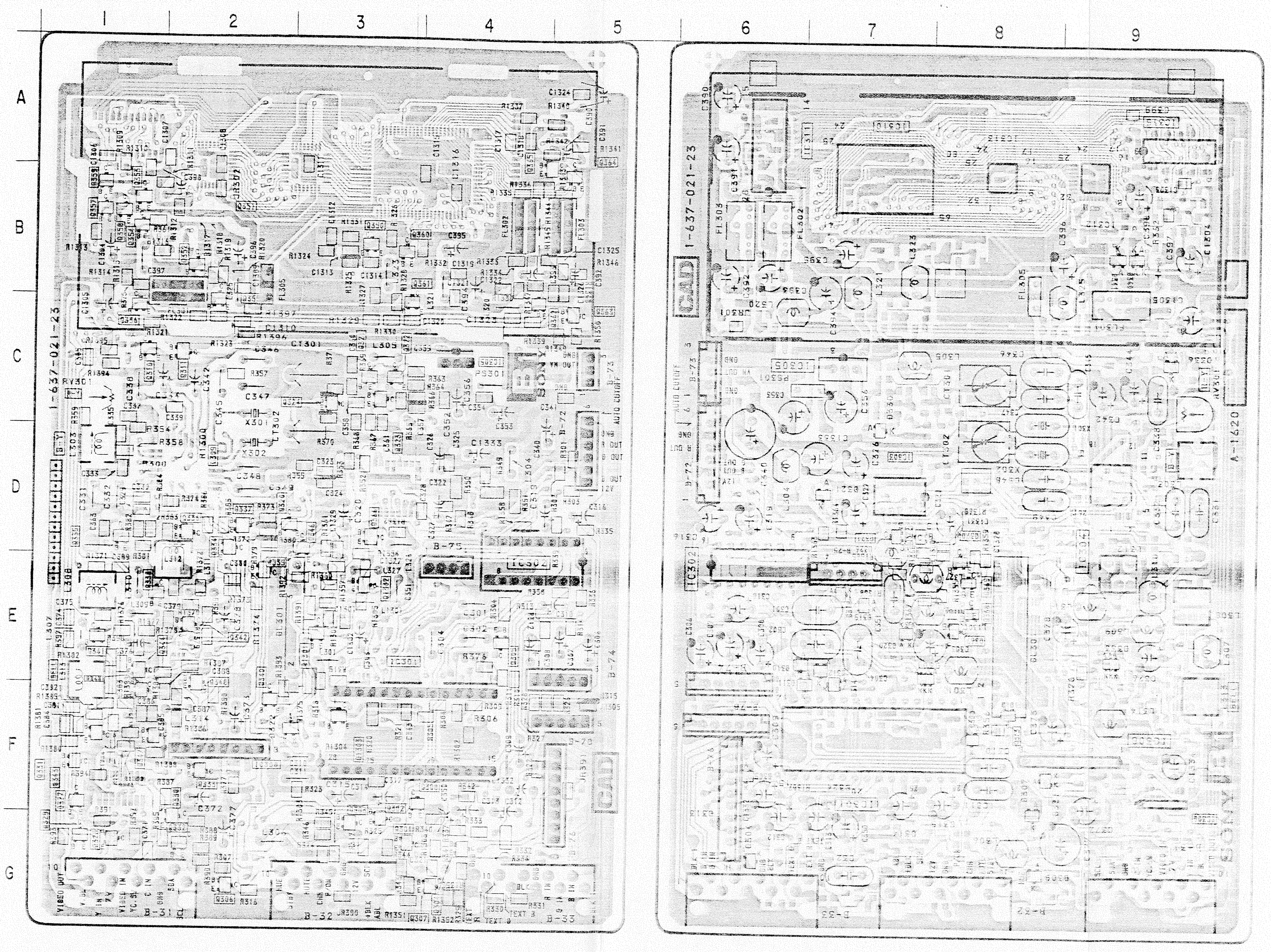
DIODE	
D301	E – 7
D304	G – 6
D305	F – 6
D307	F – 8
D308	F – 8
D309	F – 8
D310	E – 7
D311	E – 7
D312	E – 7
D314	E – 7
D318	E – 7
D319	E – 7
D320	E – 7
D321	D – 7
D322	F – 2
D330	D – 7
D331	F – 8
D333	E – 9
D336	C – 9
D340	B – 9
D341	B – 9

VARIABLE RESISTOR	
RV301	C – 9

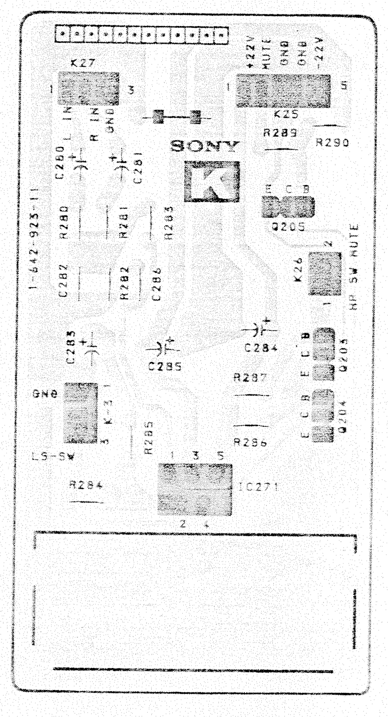
TRIMMER	
CT301	C – 8
CT302	C – 8

COIL	
L303	D – 9
L308	E – 9
L312	E – 9
L313	F – 9

– B1 Board –

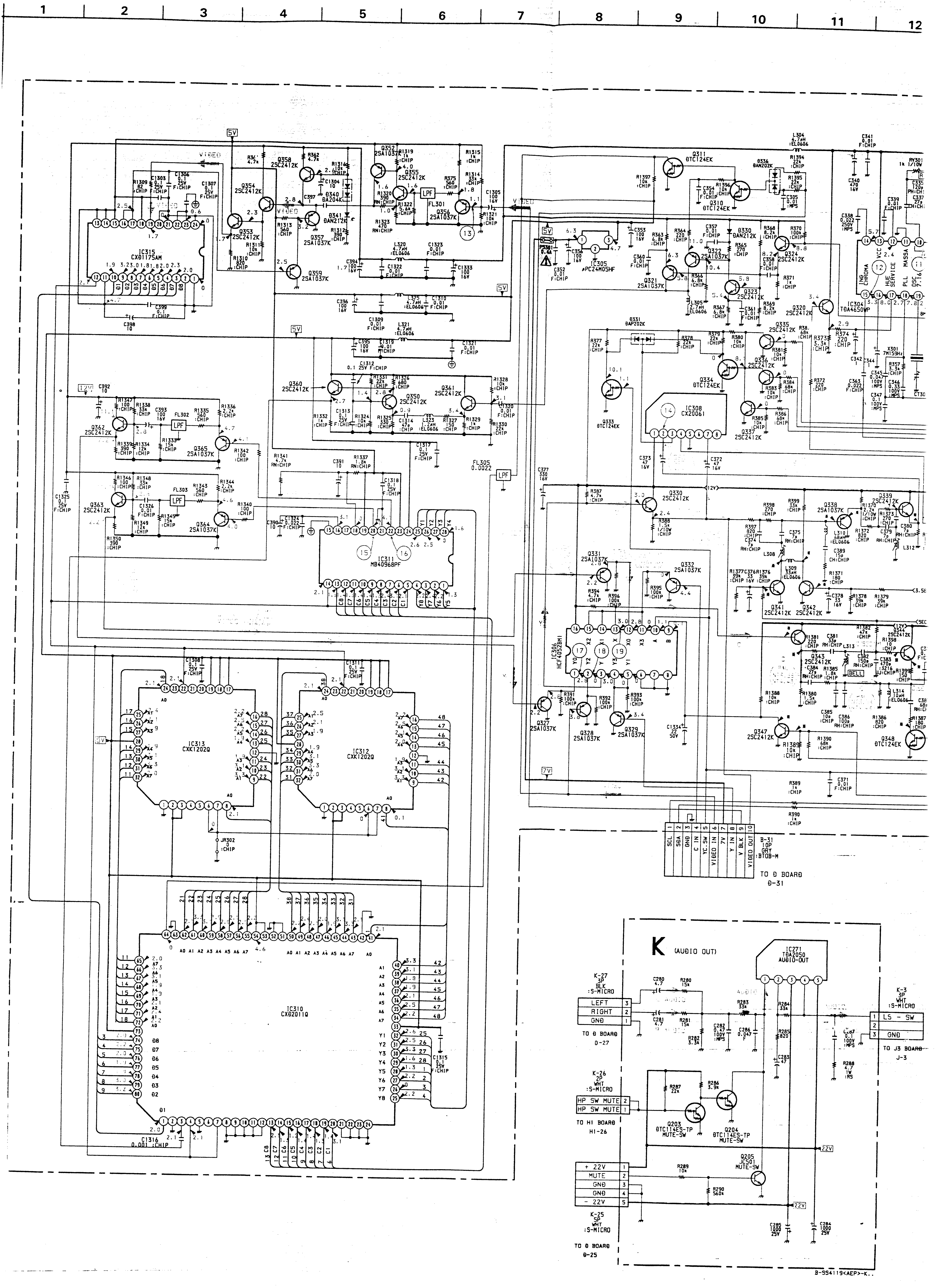

1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
1-637-021-23
SONY
VIDEO OUT
B-31
B-32
B-33
B-72
B-73
B-74
B-75

– K Board –

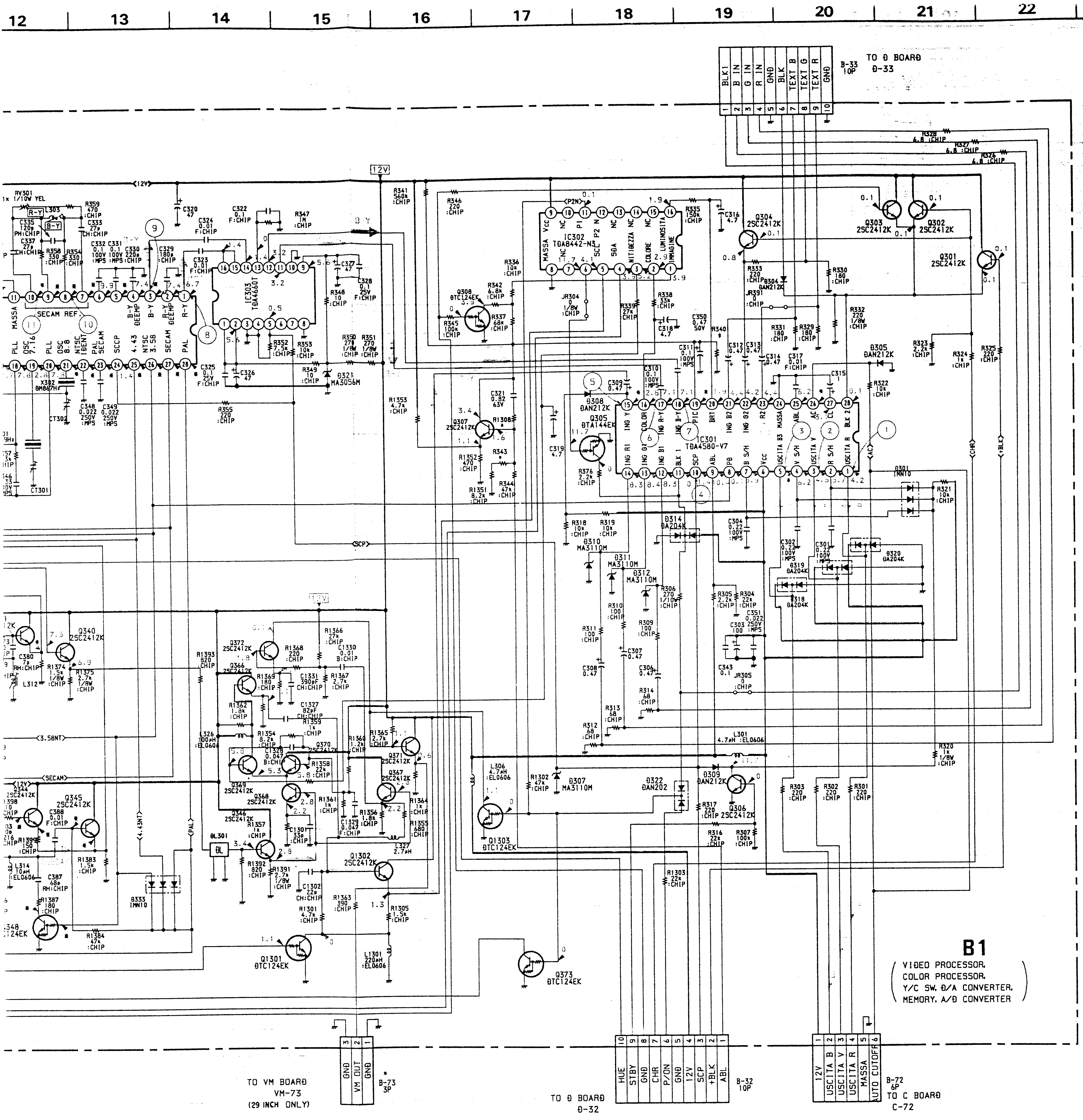

K27
K25
K26
SONY
K
1-642-923-11
R289
R290
Q205
Q204
Q203
C284
C295
R297
R286
R285
R284
IC271
LS-SW
HP SW MUTE

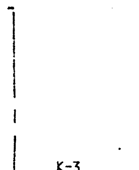
Note :

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.



1
2
3
4
5
6
7
8
9
10
11
12
IC315
CX01175AM
IC311
MB40968PF
IC313
CXK1202Q
IC312
CXK1202Q
IC310
CX02011Q
IC305
μPC24M05HF
IC308
CX20061
IC306
HCF4052BM1
IC304
TDA4650WP
FL301
FL302
FL303
FL305
LPF
VIDEO
5V
12V
7V
B-31
10P
GRY
:BTOB-M
SCL
SDA
GND
C IN
YC.SW
VIDEO IN
7V
Y IN
V BLK
VIDEO OUT
TO D BOARD
D-31
K
(AUDIO OUT)
IC271
TDA2050
AUDIO-OUT
K-27
3P
BLK
:S-MICRO
LEFT
RIGHT
GND
TO D BOARD
D-27
K-26
2P
WHT
:S-MICRO
HP SW MUTE
HP SW MUTE
TO H1 BOARD
H1-26
Q203
DTC114ES-TP
MUTE-SW
Q204
DTC114ES-TP
MUTE-SW
Q205
JC501
MUTE-SW
+ 22V
MUTE
GND
GND
- 22V
K-25
5P
WHT
:S-MICRO
TO D BOARD
D-25
K-3
3P
WHT
:S-MICRO
LS - SW
GND
TO J3 BOARD
J-3
22V
8-SS4119<AEP>-K..


12
13
14
15
16
17
18
19
20
21
22
TO D BOARD D-33
B-33 10P
BLK1
B IN
G IN
R IN
GND
BLK
TEXT B
TEXT G
TEXT R
GND
12V
IC302 TDA8442-N3
IC303 TDA4660T
IC301 TDA4580-V7
Q301 2SC2412K
Q302 2SC2412K
Q303 2SC2412K
Q304 2SC2412K
Q305 DTA144EK
Q306 2SC2412K
Q307 2SC2412K
Q308 DTC124EK
SECAM REF
SCP
3.58NT
SECAM
4.43NT
PAL
Q1301 DTC124EK
Q1302 2SC2412K
Q1303 DTC124EK
Q373 DTC124EK
B1
VIDEO PROCESSOR, COLOR PROCESSOR, Y/C SW, D/A CONVERTER, MEMORY, A/D CONVERTER
GND
VM OUT
GND
B-73 3P
TO VM BOARD VM-73 (29 INCH ONLY)
HUE
STBY
GND
CHR
P/ON
GND
12V
SCP
+BLK
ABL
B-32 10P
TO D BOARD D-32
12V
USCITA B
USCITA V
USCITA R
MASSA
AUTO CUTOFF
B-72 6P
TO C BOARD C-72


K-3
3P
WHT
:S-MICRO
LS - SW
GND
TO J3 BOARD
J-3

As to the voltage volue shown by the mark ※ on the Schematic Diagram, see the another list.

IC·NO	PIN·NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
IC301	⑤	6.7	4.8	4.8	4.8
	⑮	8.9	7.0	7.0	7.0
	⑲	3.4	3.4	3.8	3.4
	㉖	6.6	6.6	6.0	6.3
IC304	③	0.1	6.8	6.9	6.8
	⑤	9.9	0	9.9	9.3
	⑦	4.6	0	4.6	4.6
	⑧	3.4	3.0	3.4	3.4
	⑨	3.4	3.0	3.4	3.4
	⑩	4.6	3.4	4.6	4.6
	㉑	2.3	3.1	3.1	2.3
	㉒	5.6	5.6	5.6	7.4
	㉓	7.5	7.5	5.7	5.7
	㉕	0.1	0.1	0.1	6.0
	㉖	0.1	0.1	6.0	0.1
	㉗	0.1	6.0	0.1	0.1
	㉘	6.0	0.1	0.1	0.1

Q·NO		PAL	SECAM	NTSC 3.38	NTSC 4.43
Q338	B	2.4	3.9	3.9	3.9
	E	3.0	4.6	4.6	4.6
Q339	B	3.0	4.6	4.6	4.6
	E	2.4	3.9	3.9	3.9
Q341	B	0	0.6	0.4	0.1
	C	11.7	0	11.6	11.6
Q342	B	[illegible]	0	0.4	0
	C	11.7	0	11.7	11.7
Q343	B	3.4	5.4	5.3	5.3
	E	2.8	4.7	4.7	4.7
Q344	B	0	5.4	1.0	0.1
	E	4.4	4.8	1.5	4.5
Q345	B	5.0	0.1	1.9	5.0
	E	4.4	4.4	1.4	4.4
Q347	B	0.6	0	0	0
	C	0.1	11.9	11.9	11.9
Q348	B	0.1	0.1	1.0	0.1
	C	1.3	0.2	0.2	0.4

B1 BOARD **∗ MARK**

	25″	29″
B-73	–	3P
R340	270K 1/10W	220K 1/10W
R343	270 1/10W	1.8K 1/10W
R1308	0 1/10W	4.7K 1/10W

• B1 BOA

IC301
IC302
IC303
IC304
IC305
IC306
IC308
IC310
IC311
IC312
IC313
IC315

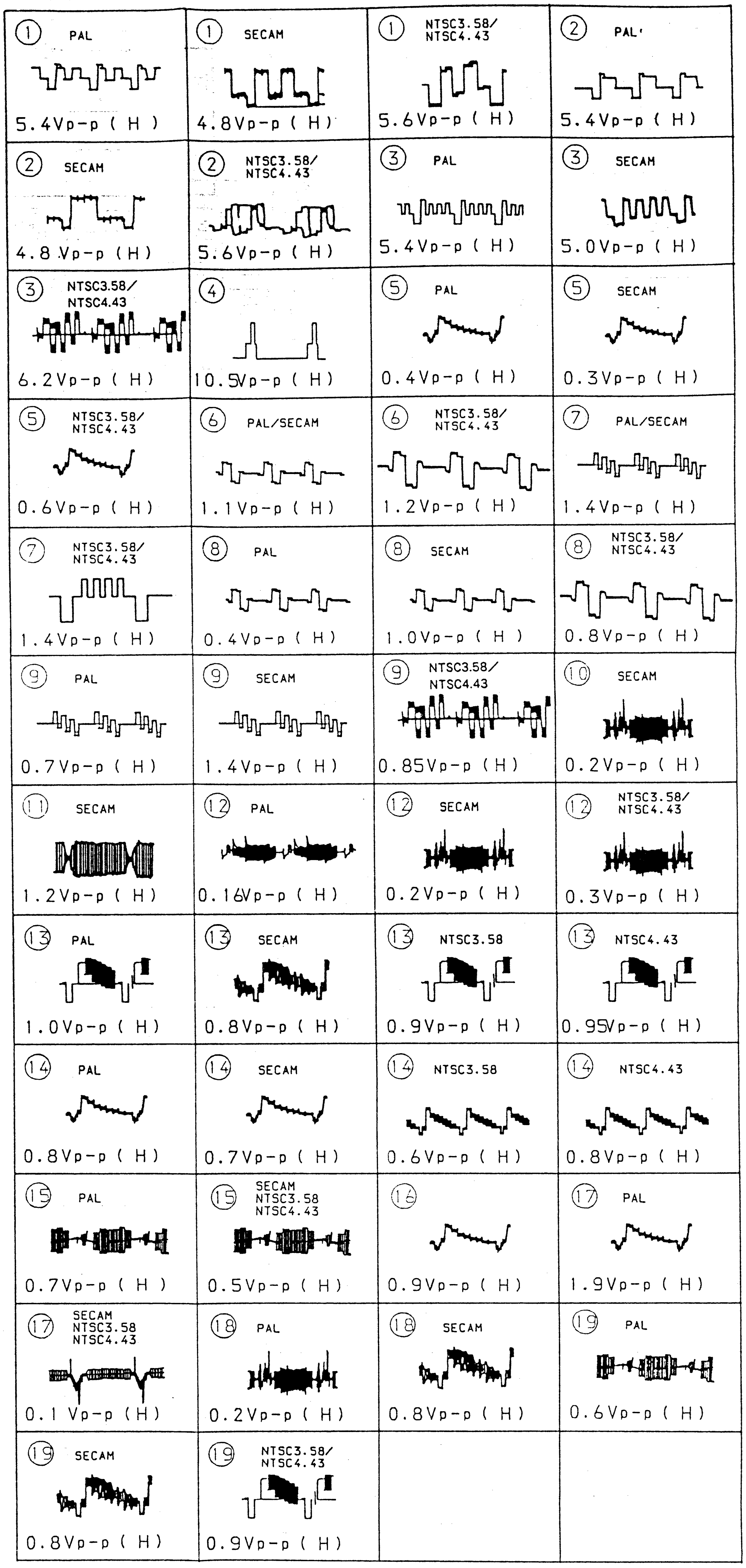
Q301
Q302
Q303
Q304
Q305
Q306
Q307
Q308
Q310
Q311
Q320
Q321
Q322
Q323
Q324
Q327
Q328
Q329
Q330
Q331
Q332
Q333
Q334
Q335
Q336
Q337
Q338
Q339
Q340
Q341
Q342
Q343
Q344
Q345
Q346
Q347
Q348
Q350
Q352
Q353
Q354
Q355
Q356
Q357
Q358
Q359
Q360
Q361
Q362
Q363
Q364
Q365
Q366
Q367
Q368
Q369
Q370
Q371
Q372
Q373
Q1301
Q1302
Q1303

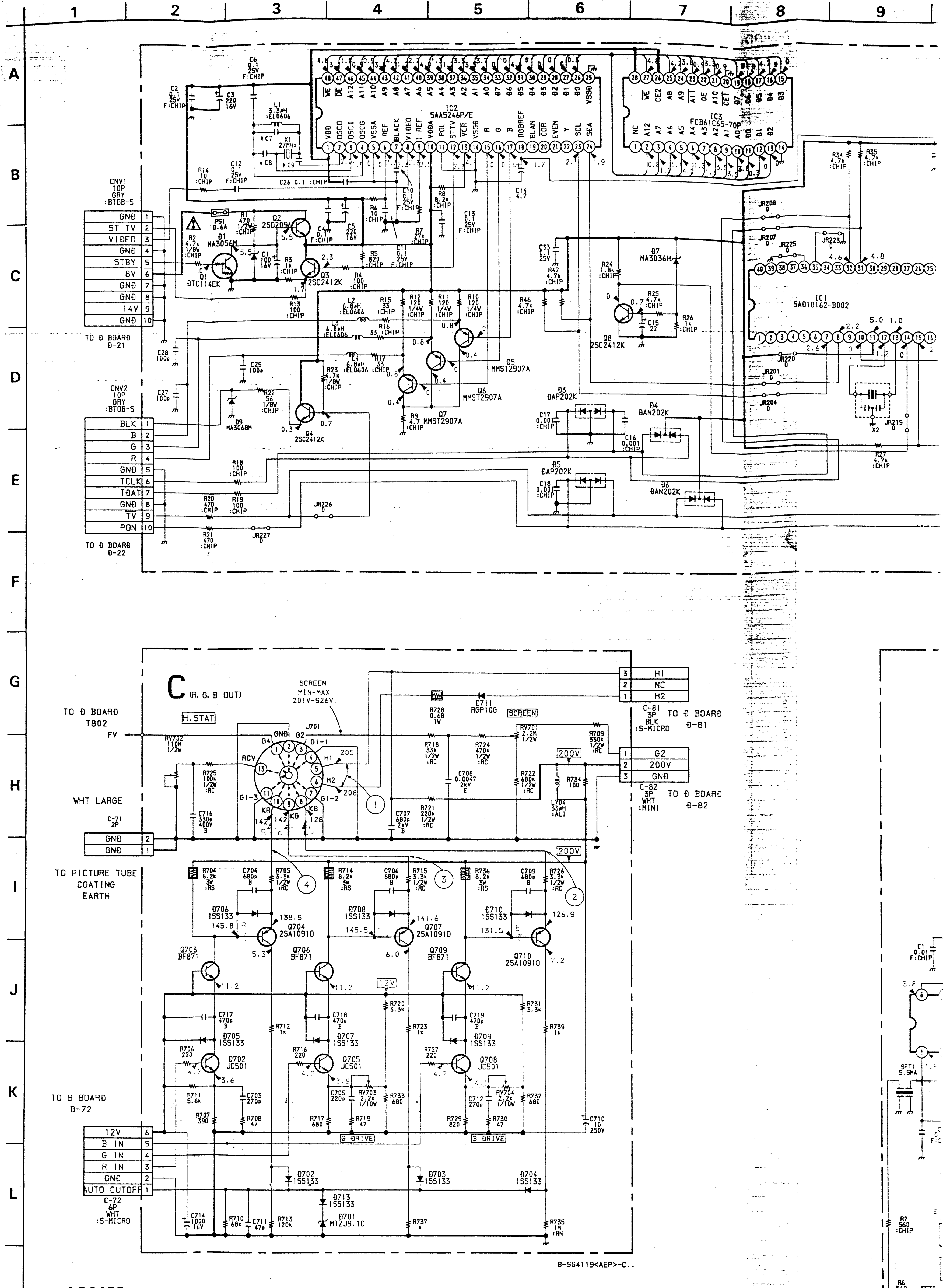
D301
D304
D305
D307
D308
D309
D310
D311
D312
D314
D318
D319
D320
D321
D322
D330
D331
D333
D336
D340
D341

B1 BOARD

IC301	TDA4580-V7	VIDEO PROCESSOR
IC302	TDA8442-N3	D/A CONVERTER
IC303	TDA4660T	1H DELAY
IC304	TDA4650WP	COLOR PROCESSOR
IC305	µ PC24M05HF	REGULATOR
IC306	HCF4052BM	Y/C SW
IC308	CX20061	Y SW
IC310	CXD2011Q-TL	COMB CONTROL
IC311	MB40968PF	D/A CONVERTER
IC312	CXK1202Q-T4	MEMORY
IC313	CXK1202Q-T4	MEMORY
IC315	CXD1175AM-T6	A/D CONVERTER
Q301	2SC2412K	CANAL + BLK
Q302	2SC2412K	ON SCREEN DISPLAY SW
Q303	2SC2412K	FAS PICTURE MUTE SW
Q304	2SC2412K	ON SCREEN DISPLAY SW
Q305	DTA144EK	ANTI PRIORITY SCART
Q306	2SC2412K	STBY SW
Q307	2SC2412K	ABL
Q308	DTC124EK	NUTE
Q310	DTC124EK	SECAM SW
Q311	DTC124EK	SECAM SW
Q320	2SC2412K	HUE BUFFER
Q321	2SA1037K	CLK AMP 3
Q322	2SA1037K	CLK AMP 2
Q323	2SC2412K	CLK AMP 1
Q324	2SC2412K	CLK BUFFER
Q327	2SA1037K	Y OUT
Q328	2SA1037K	VIDEO IN
Q329	2SA1037K	Y IN
Q330	2SC2412K	VIDEO BUFFER
Q331	2SA1037K	C CUT
Q332	2SA1037K	C IN
Q333	DTC124EK	Y/C SW
Q334	DTC124EK	Y SW
Q335	2SC2412K	SECAM SW
Q336	2SC2412K	NTSC3.58 SW
Q337	2SC2412K	NTSC4.43 SW
Q338	2SA1037K	Y BUFFER
Q339	2SC2412K	Y BUFFER
Q340	2SC2412K	Y BUFFER
Q341	2SC2412K	SECAM TRAP SW
Q342	2SC2412K	NTSC TRAP SW
Q343	2SC2412K	C OUT
Q344	2SC2412K	SECAM SW
Q345	2SC2412K	PAL/SECAM SW
Q346	2SC2412K	Y IN
Q347	2SC2412K	PAL SW
Q348	DTC124EK	NTSC3.58 SW
Q350	2SC2412K	CLK AMP
Q352	2SA1037K	VIDEO AMP
Q353	2SC2412K	BUFFER
Q354	2SC2412K	BUFFER
Q355	2SC2412K	VIDEO AMP
Q356	2SA1037K	VIDEO BUFFER
Q357	2SA1037K	CLAMP BIAS
Q358	2SC2412K	VIDEO CLAMP
Q359	2SA1037K	CLAMP BIAS
Q360	2SC2412K	CLK BUFFER
Q361	2SC2412K	CLK AMP
Q362	2SC2412K	Y BUFFER
Q363	2SC2412K	C BUFFER
Q364	2SA1037K	C BUFFER
Q365	2SA1037K	Y BUFFER
Q366	2SC2412K	SHP BUFFER
Q367	2SC2412K	Y BUFFER
Q368	2SC2412K	SHP AMP
Q369	2SC2412K	SHP AMP
Q370	2SC2412K	SHP AMP
Q371	2SC2412K	VM BUFFER
Q372	2SC2412K	VM AMP
Q373	DTC124EK	
Q1301	DTC124EK	Y BUFFER
Q1302	2SC2412K	Y BUFFER
Q1303	DTC124EK	VM MUTE
D301	IMN10	ACO AT STBY
D304	DAN212K	PROTECT
D305	DAN212K	PROTECT
D307	MA3110M	PROTECT
D308	DAN212K	PROTECT
D309	DAN212K	PROTECT
D310	MA3110M	PROTECT
D311	MA3110M	PROTECT
D312	MA3110M	PROTECT
D314	DA204K	PROTECT
D318	DA204K	PROTECT
D319	DA204K	PROTECT
D320	DA204K	PROTECT
D321	MA3056M	REG
D322	DAN202K	PROTECT
D330	DAN212K	BIAS
D331	DAP202K	Y/C SW
D333	IMN10	SYSTEM SW
D336	DAN202K	CORRECT SW
D340	DA204K	VIDEO AMP
D341	DAN212K	VIDEO AMP

• WAVEFORMS B1 BOARD




1
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7
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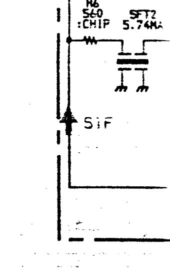
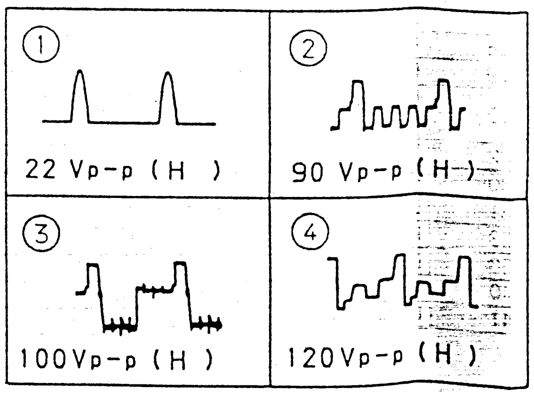
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
IC2 SAA5246P/E
IC3 FCB61C65-70P
IC1 SA010162-B002
CNV1 10P GRY :BTOB-S
GND
ST TV
VIDEO
GND
STBY
8V
GND
GND
14V
GND
TO D BOARD D-21
CNV2 10P GRY :BTOB-S
BLK
B
G
R
GND
TCLK
TDAT
GND
TV
PON
TO D BOARD D-22
PS1 0.6A
Q1 DTC114EK
Q2 2SD2094
Q3 2SC2412K
Q4 2SC2412K
Q5 MMST2907A
Q6 MMST2907A
Q7 MMST2907A
Q8 2SC2412K
D1 MA3056M
D3 DAP202K
D4 DAN202K
D5 DAP202K
D6 DAN202K
D7 MA3036H
D9 MA3068M
X1 27MHz
X2
C (R. G. B OUT)
SCREEN MIN-MAX 201V-926V
H.STAT
TO D BOARD T802
FV
RV702 110M 1/2W
J701
WHT LARGE
C-71 2P
GND
GND
TO PICTURE TUBE COATING EARTH
SCREEN
D711 RGP10G
RV701 2.2M 1/2W
H1
NC
H2
C-81 3P BLK :S-MICRO
TO D BOARD D-81
G2
200V
GND
C-82 3P WHT :MINI
TO D BOARD D-82
200V
12V
Q702 JC501
Q703 BF871
Q704 2SA10910
Q705 JC501
Q706 BF871
Q707 2SA10910
Q708 JC501
Q709 BF871
Q710 2SA10910
G DRIVE
B DRIVE
TO B BOARD B-72
12V
B IN
G IN
R IN
GND
AUTO CUTOFF
C-72 6P WHT :S-MICRO
D701 MTZJ9.1C
D702 1SS133
D703 1SS133
D704 1SS133
D713 1SS133
B-SS4119<AEP>-C..


SFT1 5.5MA
R2 560 :CHIP
R6 560 :CHIP
SFT2 5.74MA
SIF
TO A

- **C BOARD**

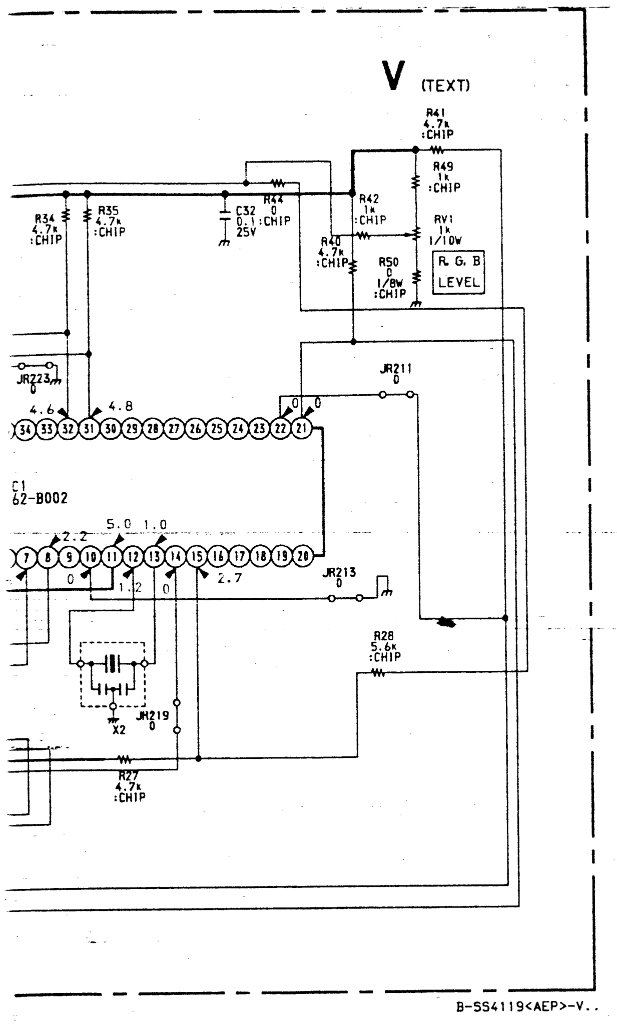
Q702	JC501	R DRIVE
Q703	BF871	R OUT
Q704	2SA10910	ACO MEASURING
Q705	JC501	G DRIVE
Q706	BF871	G OUT
Q707	2SA10910	ACO MEASURING
Q708	JC501	B DRIVE
Q709	BF871	B OUT
Q710	2SA10910	ACO MEASURING
D701	MTZJ9.1C	PROTECT
D702	1SS133	PROTECT
D703	1SS133	PROTECT
D704	1SS133	PROTECT
D705	1SS133	PROTECT
D706	1SS133	PROTECT
D707	1SS133	PROTECT
D708	1SS133	PROTECT
D709	1SS133	PROTECT
D710	1SS133	PROTECT
D711	RGP10G	HEATING VOLTAGE REC
D713	1SS133	PROTECT

- **WAVEFORMS C BOARD**



C BOARD ＊MARK

	25″	29″
R737	820K	470K

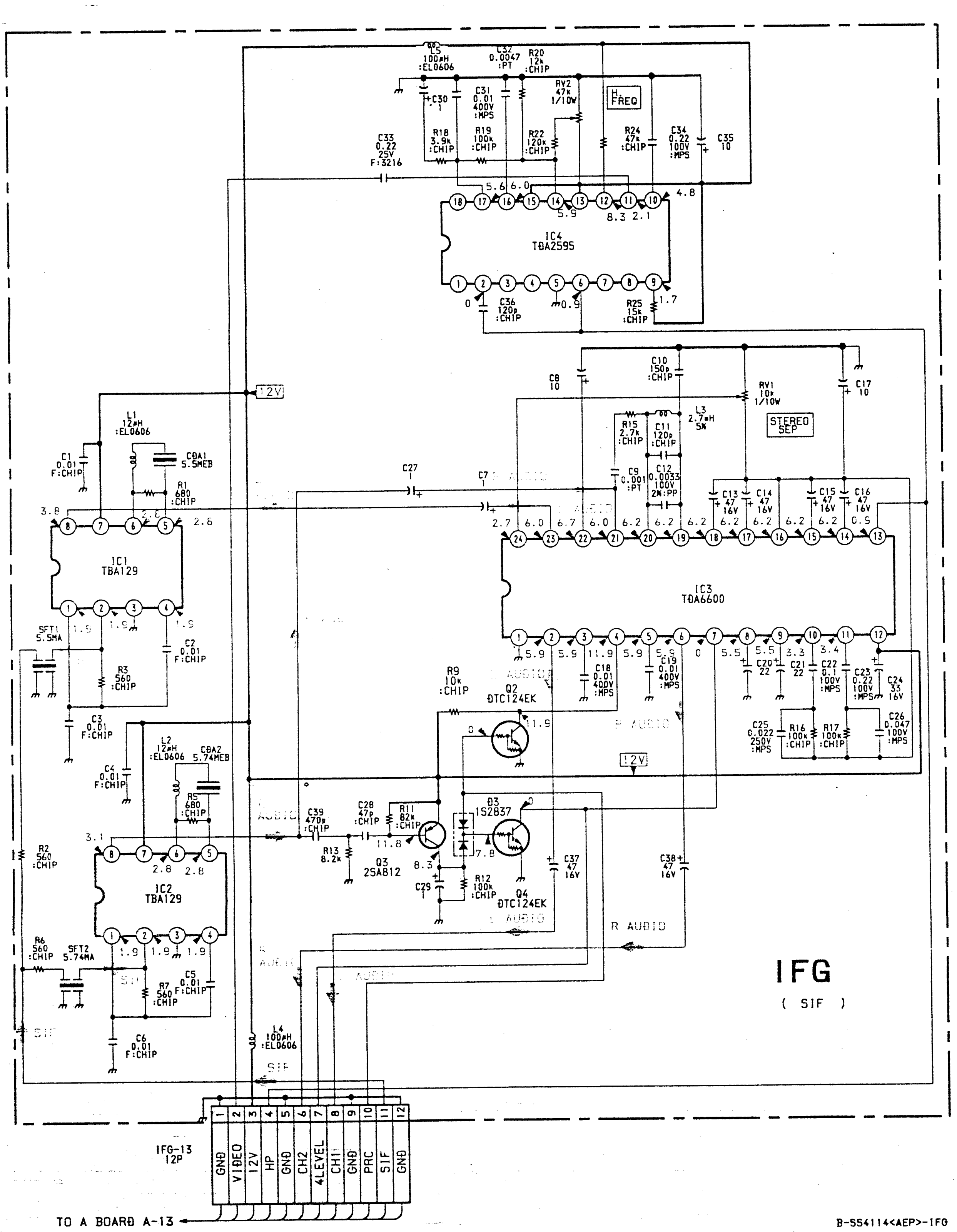

V (TEXT)
R41 4.7k :CHIP
R49 1k :CHIP
R44
R42 1k :CHIP
RV1 1k 1/10W
R. G. B LEVEL
R34 4.7k :CHIP
R35 4.7k :CHIP
C32 0.1:CHIP 25V
R40 4.7k :CHIP
R50 0 1/8W :CHIP
JR211 0
JR223
4.6
4.8
IC1 62-B002
2.2
5.0 1.0
JR213 0
2.7
R28 5.6k :CHIP
JR219 0
X2
R27 4.7k :CHIP
B-SS4119<AEP>-V..

V BOARD * MARK

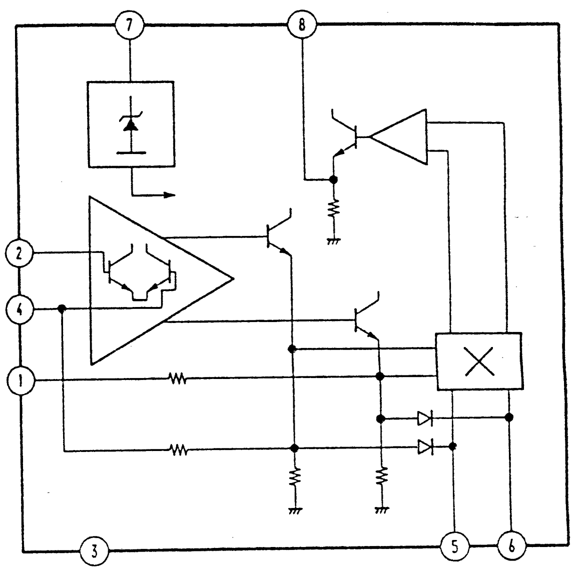
	25″	29″
C7	22P	–
C8	22P	–
C9	22P	–

- **V BOARD**

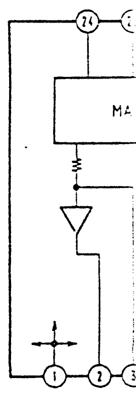
IC1	SDA20162-B002	MICRO-CONT
IC2	SAA5246P/E	IVT
IC3	FCB61C65-70P	STATIC-RAM
Q1	DTC114EK	STAD BY
Q2	2SD2096	5V REG
Q3	2SC2412K	SYNC BUFFER
Q4	2SC2412K	BLK OUT
Q5	MMST2907A	B OUT
Q6	MMST2907A	G OUT
Q7	MMST2907A	R OUT
Q8	2SC2412K	RESET
D1	MA3056M	5V REG
D3	DAP202K	PROTEC
D4	DAN202K	PROTEC
D5	DAP202K	PROTEC
D6	DAN202K	PROTEC
D7	MA3036H	PROTEC
D9	MA3068M	PROTEC


L5 100μH :EL0606
C37 0.0047 :PT
R20 12k :CHIP
RV2 47k 1/10W
H. FREQ
C30 1
C31 0.01 400V :MPS
R18 3.9k :CHIP
R19 100k :CHIP
R22 120k :CHIP
R24 47k :CHIP
C34 0.22 100V :MPS
C35 10
C33 0.22 25V F:3216
IC4 TDA2595
C36 120p :CHIP
R25 15k :CHIP
12V
L1 12μH :EL0606
CBA1 5.5MEB
C1 0.01 F:CHIP
R1 680 :CHIP
IC1 TBA129
SFT1 5.5MA
R3 560 :CHIP
C2 0.01 F:CHIP
C3 0.01 F:CHIP
C10 150p :CHIP
C8 10
RV1 10k 1/10W
C17 10
L3 2.7μH 5%
STEREO SEP
R15 2.7k :CHIP
C11 120p :CHIP
C27 1
C7 1
C9 0.001 :PT
C12 0.0033 100V 2%:PP
C13 47 16V
C14 47 16V
C15 47 16V
C16 47 16V
IC3 TDA6600
R9 10k :CHIP
Q2 DTC124EK
C18 0.01 400V :MPS
C19 0.01 400V :MPS
C20 22
C21 22
C22 0.1 100V :MPS
C23 0.22 100V :MPS
C24 33 16V
C25 0.022 250V :MPS
R16 100k :CHIP
R17 100k :CHIP
C26 0.047 100V :MPS
L2 12μH :EL0606
CBA2 5.74MEB
C4 0.01 F:CHIP
R5 680 :CHIP
IC2 TBA129
C39 470p :CHIP
C28 47p :CHIP
R11 82k :CHIP
Q3 1S2837
R13 8.2k
Q3 2SA812
C29 1
R12 100k :CHIP
Q4 DTC124EK
C37 47 16V
C38 47 16V
R AUDIO
R2 560 :CHIP
R6 560 :CHIP
SFT2 5.74MA
R7 560 :CHIP
C5 0.01 F:CHIP
C6 0.01 F:CHIP
L4 100μH :EL0606
IFG
(SIF)
IFG-13 12P
1 GND
2 VIDEO
3 12V
4 HP
5 GND
6 CH2
7 4LEVEL
8 CH1
9 GND
10 PRC
11 SIF
12 GND
TO A BOARD A-13
B-SS4114<AEP>-IFG

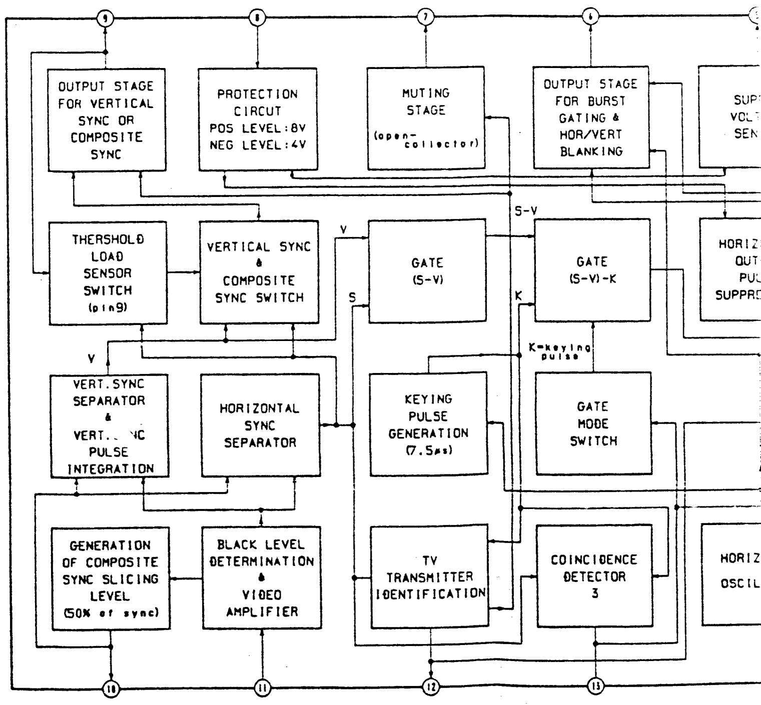
- **IFG BOARD IC1/IC2 TBA129**



- **IFG BOA**



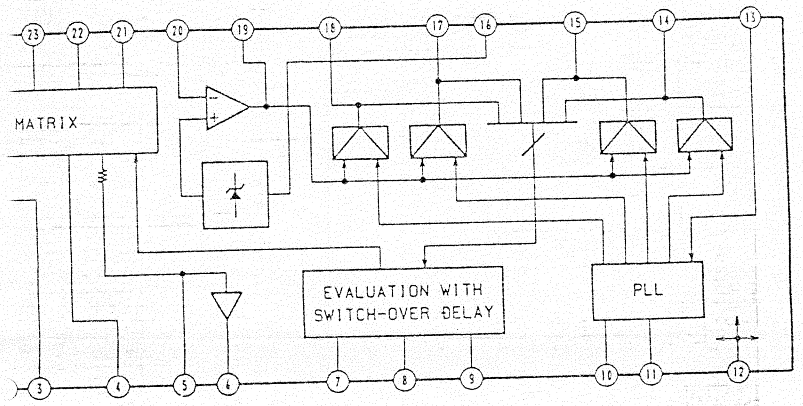
- **IFG BOARD IC4 TDA2595**

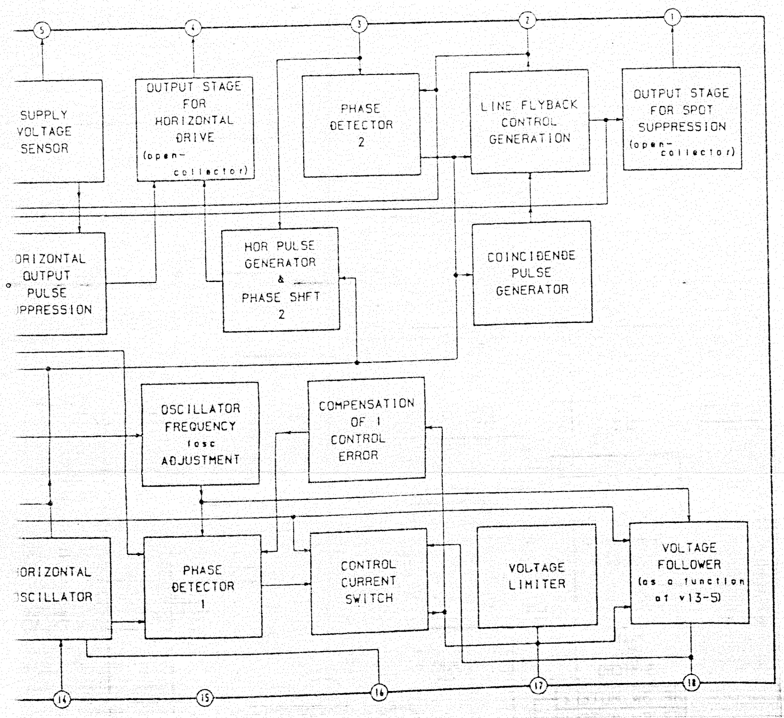

9
8
7
6
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE SYNC
PROTECTION CIRCUT POS LEVEL:8V NEG LEVEL:4V
MUTING STAGE (open-collector)
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
SUP VOL SEN
S-V
THERSHOLD LOAD SENSOR SWITCH (pin9)
VERTICAL SYNC & COMPOSITE SYNC SWITCH
V
S
GATE (S-V)
K
GATE (S-V)-K
HORIZ OUT PUL SUPPR
K=keying pulse
V
VERT.SYNC SEPARATOR & VERT. SYNC PULSE INTEGRATION
HORIZONTAL SYNC SEPARATOR
KEYING PULSE GENERATION (7.5μs)
GATE MODE SWITCH
GENERATION OF COMPOSITE SYNC SLICING LEVEL (50% of sync)
BLACK LEVEL DETERMINATION & VIDEO AMPLIFIER
TV TRANSMITTER IDENTIFICATION
COINCIDENCE DETECTOR 3
HORIZ OSCIL
10
11
12
13

- **IFG BOARD**

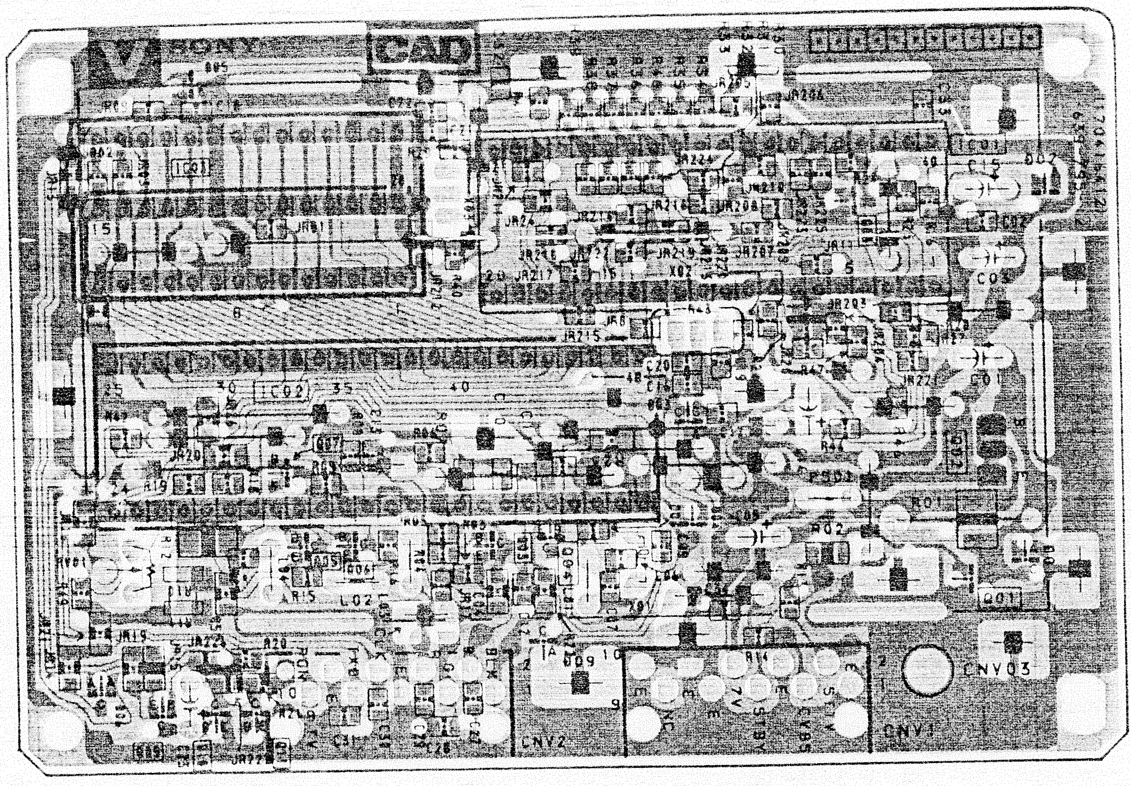
IC1	TBA129	5.5 DET
IC2	TBA129	5.74 DET
IC3	TDA6600	SIF DET AMP
IC4	TDA2595	H. FEQ AMP
Q2	DTC124EK	SW
Q3	2SA812	SW
Q4	DTC124EK	SW
D3	1S2837	SW

OARD IC3 TDA6600


23
22
21
20
19
18
17
16
15
14
13
MATRIX
EVALUATION WITH SWITCH-OVER DELAY
PLL
3
4
5
6
7
8
9
10
11
12


5
4
3
2
1
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE (open-collector)
PHASE DETECTOR 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION (open-collector)
ORIZONTAL OUTPUT PULSE UPPRESSION
HOR PULSE GENERATOR & PHASE SHFT 2
COINCIDENCE PULSE GENERATOR
OSCILLATOR FREQUENCY (coarse) ADJUSTMENT
COMPENSATION OF I CONTROL ERROR
ORIZONTAL OSCILLATOR
PHASE DETECTOR 1
CONTROL CURRENT SWITCH
VOLTAGE LIMITER
VOLTAGE FOLLOWER (as a function of v13-5)
14
15
16
17
18

- V Board -

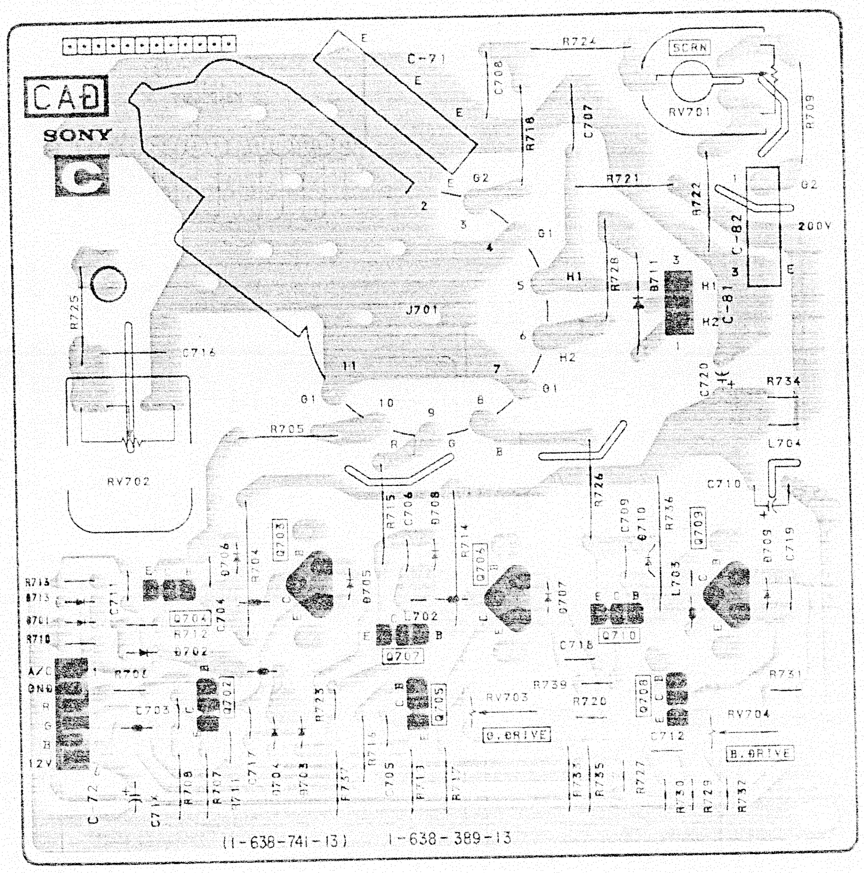

V
SONY
CAD
IC01
IC02
CNV1
CNV2
CNV03

Note :

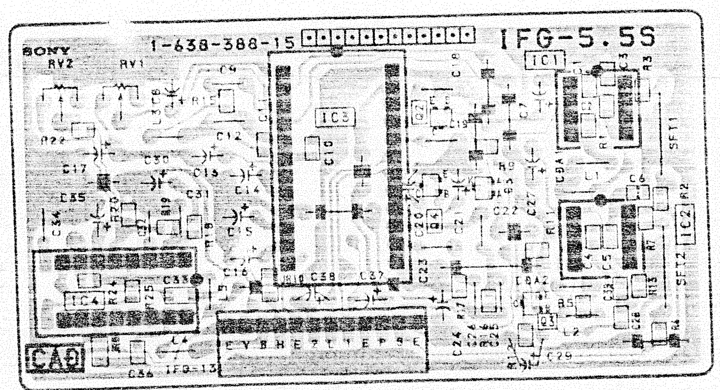
- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

- C Board -

( ) : 25 INCH

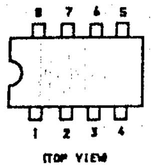

CAD
SONY
C
RV701
RV702
RV703
RV704
J701
200V
12V
G. DRIVE
B. DRIVE
(1-638-741-13)
1-638-389-13

- IFG Board -

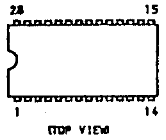

SONY
1-638-388-15
IFG-5.5S
IC1
IC2
IC3
IC4
CAD

5-4. SEMICONDUCTORS

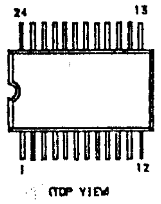
BA4558
NE5532P
RC4558P
SDA2546
TBA129
TDA1543
TEA2014A
TEA2031A


8 7 6 5
1 2 3 4
(TOP VIEW)

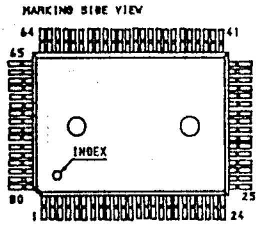
CXA1114P
CXK5864BP-10L
MAB8461P-W208
SAA5246P/E
SAA7280
TC5565APL-15L
TDA4580-V7
TDA6200
TEA2028B


28
15
1
14
(TOP VIEW)

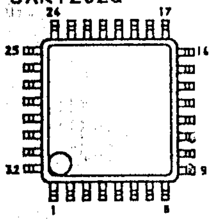
CXD1175AM


24
13
1
12
(TOP VIEW)

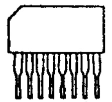
CXD2011Q


MARKING SIDE VIEW
64
41
65
INDEX
80
1
25
24

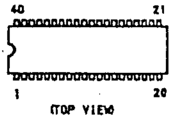
CXK1202Q


24
17
25
16
32
9
1
8

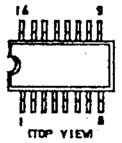
CX20061



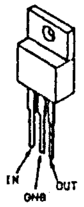
FCB61C65L-70P
SDA20560-A012
SAD20162-B002


40
21
1
20
(TOP VIEW)

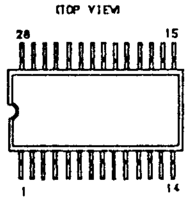
HCF4052BM


16
9
1
8
(TOP VIEW)

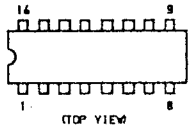
LM7812CT
MC7812CT
TDA8341/N6
TEA7605
μPC24M05HF



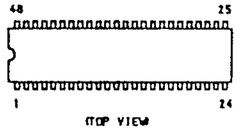
MB40968PF


(TOP VIEW)
28
15
1
14

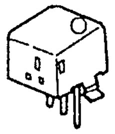
MC14051BCP
MC14053BCP
PC8574
TDA2545A-V4
TDA4660T
TDA8442N3
TEA2260
μPD4053BC


16
9
1
8
(TOP VIEW)

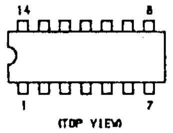
SAA5246P/E/M4A


48
25
1
24
(TOP VIEW)

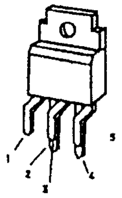
SBX1610-11



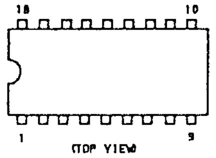
SN74LS02N


14
8
1
7
(TOP VIEW)

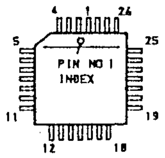
TDA2050



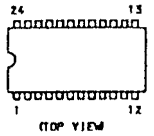
TDA2579/V9


18
10
1
9
(TOP VIEW)

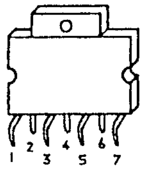
TDA4650WP


4
1
24
5
25
PIN NO 1
INDEX
11
19
12
18

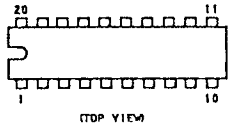
TDA6600-2


24
13
1
12
(TOP VIEW)

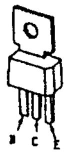
TDA8170



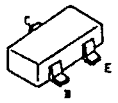
TDA8732


20
11
1
10
(TOP VIEW)

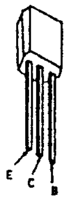
BF871



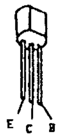
DTA144EK
DTC114EK
DTC124EK
DTC144EK
MMST2907A
2SA1037K
2SA1162
2SA812
2SB1295
2SC1623
2SC2412
2SC2712



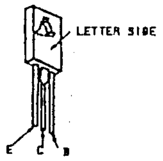
DTC144ES



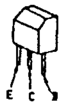
JC501
2SA1091



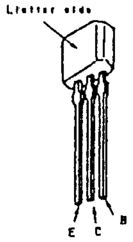
2SA1220A
2SB1357
2SC2688


LETTER SIDE
E C B

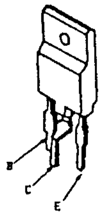
2SB734
2SD773
2SD774



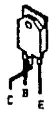
2SC2785


Letter side
E C B

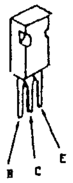
2SD1548



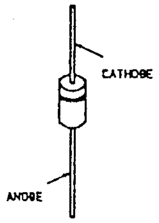
2SD1941



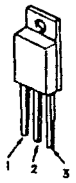
2SD2096



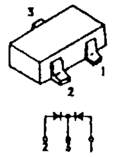
BR405B
BB809
ERC06-15S
ERC25-06S
RGP10G
RU-3AM


CATHODE
ANODE

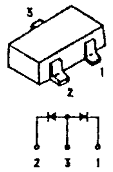
CTU-12S



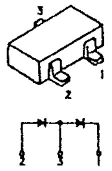
DAN202K
DAN212K
MA152WK
1S2837



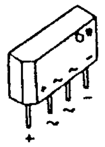
DAP202K



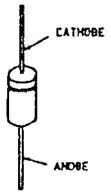
DA204K
1S226



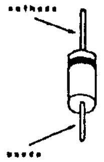
D4SB60L-F



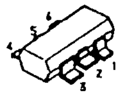
EGP20G
GP08D
RGP02-17
RGP15J


CATHODE
ANODE

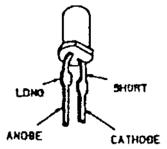
ERD29-08J


cathode
anode

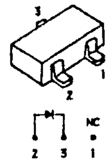
IMN10



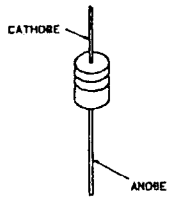
LD-201VR


LONG
SHORT
ANODE
CATHODE

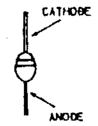
MA3056M
MA3110
MA3036H
MA3068M
RD11M-B2
RD3.6M-B2
RD5.6M-B2
RD6.8M-B2



MTZJ-13B
MTZJ-15A
MTZJ-33A
MTZJ-36D
MTZJ-3.9B
MTZJ-4.7B
MTZJ-5.6B
MTZJ-6.2C
MTZJ-7.5C
MTZJ-9.1C
MTZN-10C
RD5.6ESB2
RD6.2ESB2
RD6.8ESB2
RD7.5ESB2
RD9.1ESB3
UZ4.7BSC
1SS119
1SS133


CATHODE
ANODE

U05G


CATHODE
ANODE

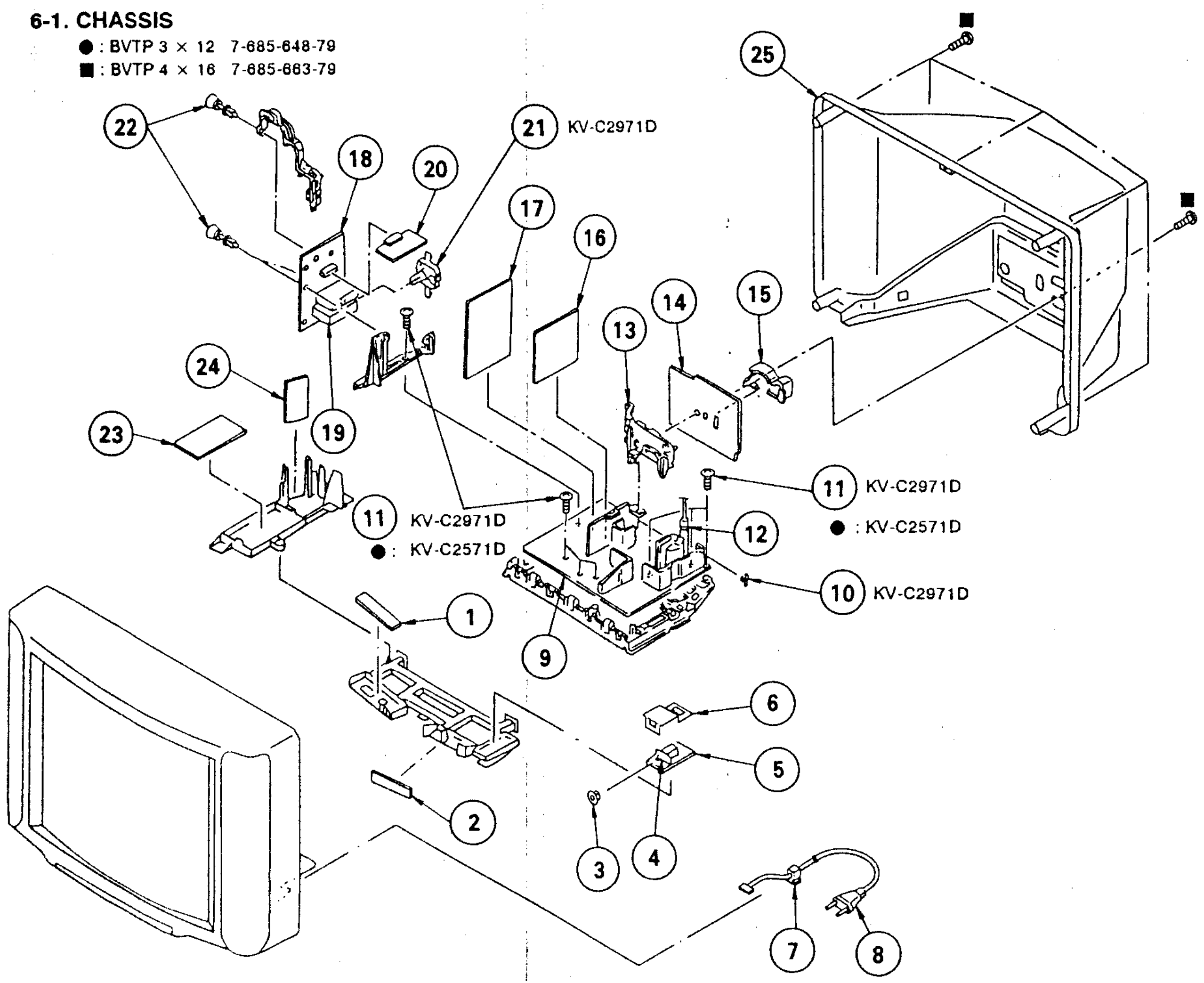
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS

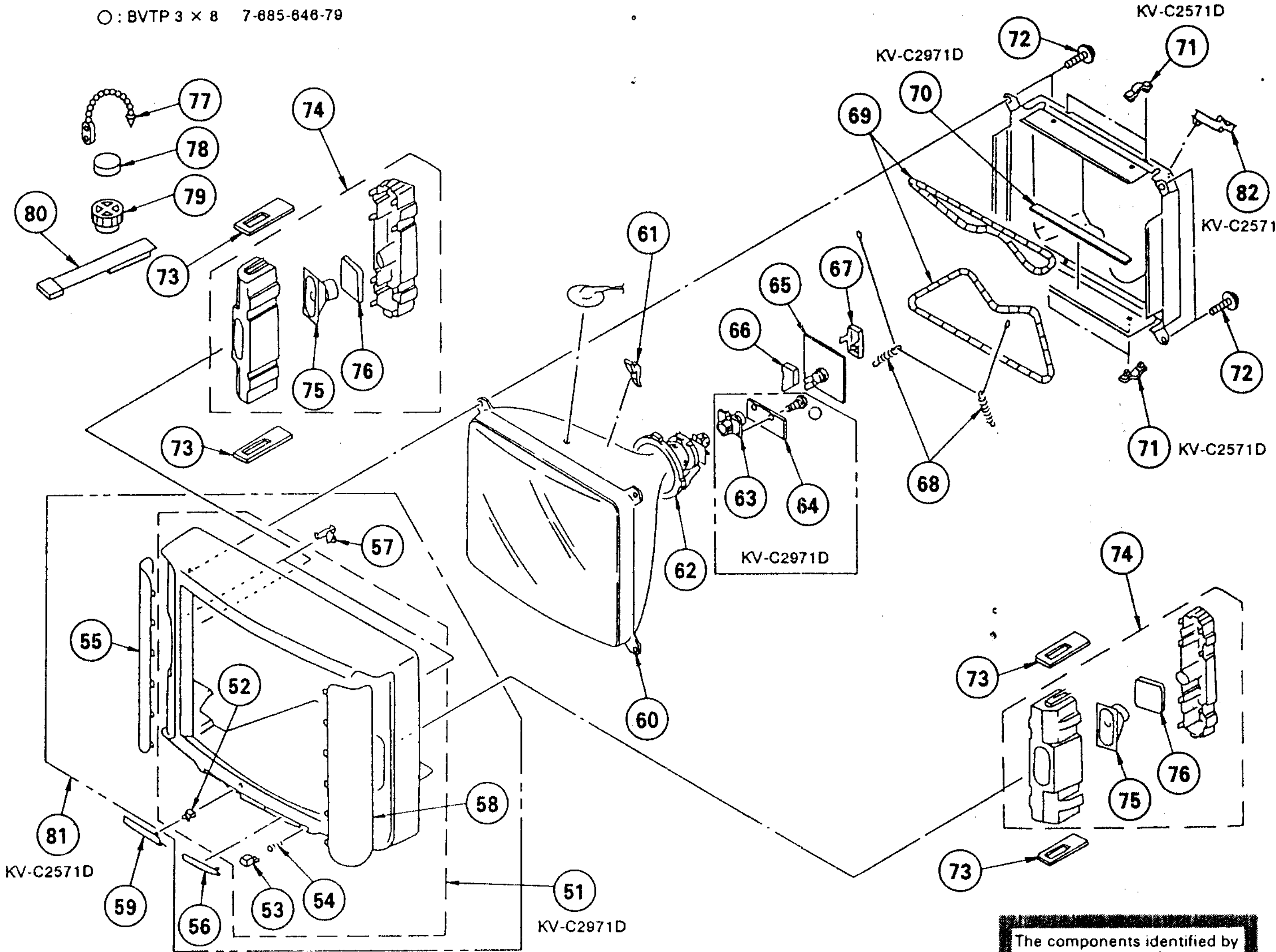
●: BVTP 3 × 12 7-685-648-79
■: BVTP 4 × 16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-638-744-11	H1 BOARD (KV-C2571D)	
	*1-638-391-11	H1 BOARD (KV-C2971D)	
2	*1-638-745-11	H2 BOARD (KV-C2571D)	
	*1-638-392-11	H2 BOARD (KV-C2971D)	
3	4-386-611-11	COVER, SWITCH (KV-C2571D)	
	4-386-611-01	COVER, SWITCH (KV-C2971D)	
4	⚠1-571-433-12	SWITCH, PUSH (AC POWER)	
5	*A-1624-008-A	F BOARD, COMPLETE (KV-C2571D)	
	*A-1624-007-A	F BOARD, COMPLETE (KV-C2971D)	
6	4-200-274-11	COVER, POWER SWITCH (KV-C2571D)	
	4-200-952-01	COVER, POWER SWITCH (KV-C2971D)	
7	⚠4-389-201-11	HOLDER, AC CORD (KV-C2571D)	
	⚠4-389-201-03	HOLDER, AC CORD (KV-C2971D)	
8	⚠1-590-501-11	CORD, POWER (WITH NOISE FILTER)	
9	*A-1642-079-A	D BOARD, COMPLETE (KV-C2571D)	
	*A-1642-085-A	D BOARD, COMPLETE (KV-C2971D)	
10	*3-646-071-00	HOLDER, WIRE (KV-C2971D)	
11	4-364-802-00	SCREW (3.5X13) (KV-C2971D)	
12	⚠1-439-416-41	TRANSFORMER ASSY, FLYBACK (NX-1604) (KV-C2571D)	
	⚠1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650) (KV-C2971D)	
13	*4-386-624-01	BRACKET, J (KV-C2571D)	
	*4-386-624-11	BRACKET, J (KV-C2971D)	
14	*A-1651-023-A	J1 BOARD, COMPLETE (KV-C2571D)	
	*A-1651-038-A	J1 BOARD, COMPLETE (KV-C2971D)	
15	4-200-014-11	BRACKET, TERMINAL (KV-C2571D)	
	4-200-014-01	BRACKET, TERMINAL (KV-C2971D)	
16	*A-1645-022-A	V BOARD, COMPLETE (KV-C2571D)	
	*A-1645-013-A	V BOARD, COMPLETE (KV-C2971D)	
17	*A-1621-030-A	B1 BOARD, COMPLETE (KV-C2571D)	
	*A-1621-031-A	B1 BOARD, COMPLETE (KV-C2971D)	
18	*A-1632-054-A	A BOARD, COMPLETE (KV-C2571D)	
	*A-1632-094-A	A BOARD, COMPLETE (KV-C2971D)	
19	⚠1-465-301-11	TUNER, ET (UV-816(PLL))	
20	*A-1654-005-A	IFG BOARD, COMPLETE (KV-C2571D)	
	*A-1654-008-A	IFG BOARD, COMPLETE (KV-C2971D)	
21	*4-386-617-01	HOLDER, TERMINAL (KV-C2971D)	
22	4-386-618-01	RIVET, T TYPE	
23	*1-642-923-11	K BOARD	
24	*1-642-924-11	J3 BOARD	
25	4-202-032-01	COVER, REAR (KV-C2571D)	
	4-202-014-01	COVER, REAR (KV-C2971D)	

6-2. PICTURE TUBE

○: BVTP 3 × 8 7-685-646-79

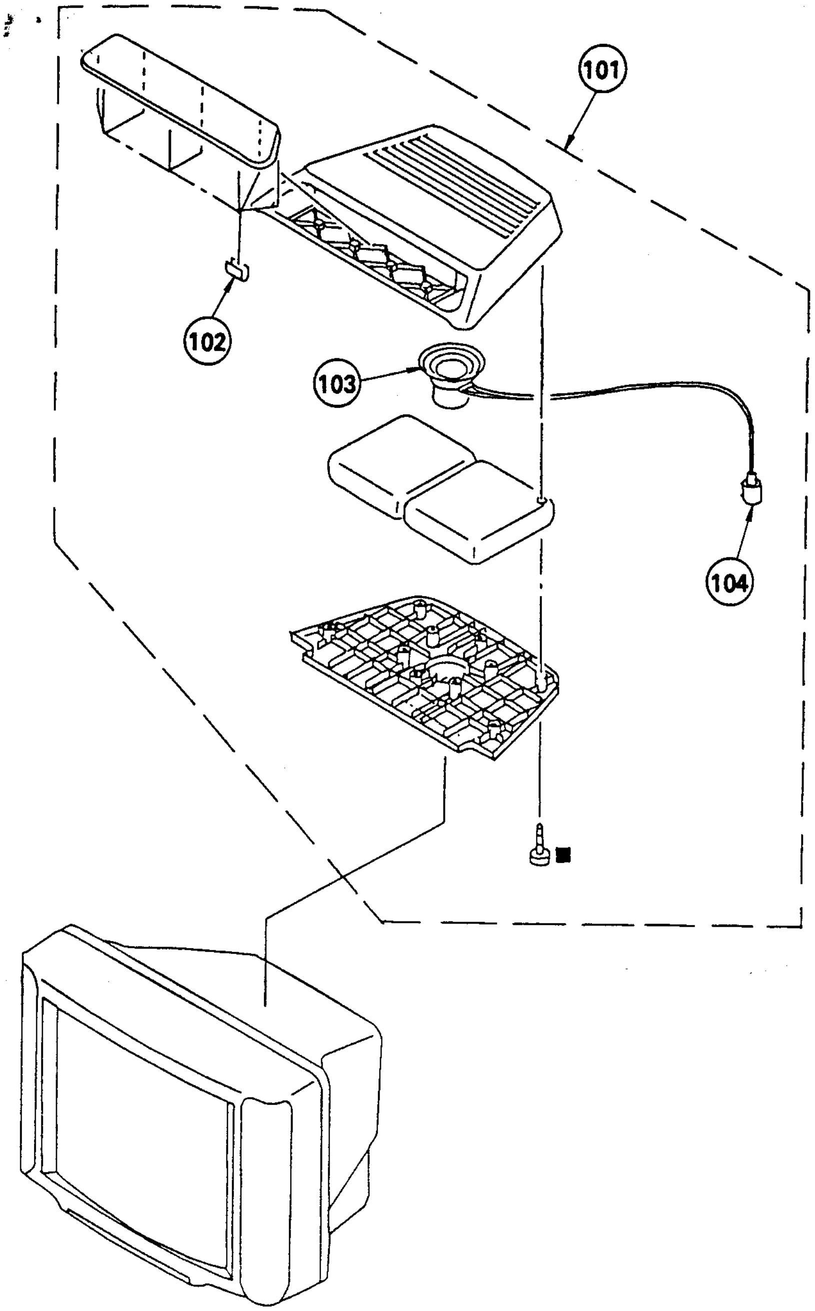


The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4200-098-1	CABINET ASSY (WITH BEZEL ASSY)	52~54 (KV-C2971D)
52	4-392-036-01	CATCHER, PUSH	
53	4-202-022-01	BUTTON, POWER (KV-C2571D)	
	4-200-991-01	BUTTON, POWER (KV-C2971D)	
54	4-329-112-00	SPRING (KV-C2571D)	
	4-329-112-41	SPRING (KV-C2971D)	
55	X-4200-103-1	PLATE ASSY, ORNAMENTAL (L) (KV-C2571D)	
	X-4200-107-1	PLATE ASSY, ORNAMENTAL (L) (KV-C2971D)	
56	4-202-020-01	WINDOW, ORNAMENTAL (KV-C2571D)	
	4-200-989-01	WINDOW, ORNAMENTAL (KV-C2971D)	
57	4-202-023-01	CLIP, CONTACT (KV-C2571D)	
	4-200-992-01	CLIP, CONTACT (KV-C2971D)	
58	X-4200-102-1	PLATE ASSY, ORNAMENTAL (R) (KV-C2571D)	
	X-4200-106-1	PLATE ASSY, ORNAMENTAL (R) (KV-C2971D)	
59	4-202-021-21	DOOR (KV-C2571D)	
	4-200-990-21	DOOR (KV-C2971D)	
60	⚠8-733-231-05	PICTURE TUBE (A59JWC61X) (KV-C2571D)	
	⚠8-733-831-05	PICTURE TUBE (A68JYL61X) (KV-C2971D)	
61	3-704-495-01	SPACER, DY	
62	⚠1-451-311-21	DEFLECTION YOKE (Y25FXA) (KV-C2571D)	
	⚠1-451-313-21	DEFLECTION YOKE (Y29FXA) (KV-C2971D)	
63	⚠1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308) (KV-C2971D)	
64	*1-634-193-11	VM BOARD (KV-C2971D)	
65	*A-1638-015-A	C BOARD, COMPLETE (KV-C2571D)	
	*A-1638-013-A	C BOARD, COMPLETE (KV-C2971D)	
66	*4-379-167-01	COVER (MAIN), CV	
67	*4-379-160-01	COVER (REAR LID), CV	
68	4-303-774-11	SPRING, GROUND WIRE (KV-C2571D)	
	4-369-318-00	SPRING, TENSION (KV-C2971D)	
69	⚠1-426-372-11	COIL, DEMAGNETIZATION (KV-C2571D)	
	⚠1-426-398-11	COIL, DEMAGNETIZATION (KV-C2971D)	
70	3-651-853-01	CUSHION (KV-C2971D)	
71	*4-385-916-01	HOLDER (D) (KV-C2571D)	
72	4-373-263-11	SCREW (M), PT (KV-C2571D)	
	4-200-976-01	SCREW, PT (KV-C2971D)	
73	4-202-027-01	CUSHION, BOX (KV-C2571D)	
	4-200-995-01	CUSHION, BOX (KV-C2971D)	
74	A-1678-036-A	BOX COMPLETE ASSY (KV-C2571D)	75,76
	A-1678-048-A	BOX ASSY (KV-C2971D)	75,76
75	1-504-146-11	SPEAKER (5X11CM)	
76	4-202-029-01	STOPPER (KV-C2571D)	
	4-200-999-01	STOPPER (KV-C2971D)	
77	4-308-870-00	CLIP, LEAD WIRE	
78	1-452-032-00	MAGNET, DISK; 10MM ϕ	
79	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
80	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
81	X-4200-104-1	CABINET ASSY (WITH BEZEL ASSY)	52~58 (KV-C2571D)
82	*4-387-284-01	HOLDER LEAD (KV-C2571D)	

6-3. SPEAKER

■ : BVTP 4 × 16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
101	A-1678-037-A	BOX ASSY, WOOFER (KV-C2571D)	102~104
	A-1678-053-A	BOX ASSY, WOOFER (KV-C2971D)	102~104
102	4-202-030-01	CLIP	
103	1-544-767-11	SPEAKER (13CM)	
104	1-696-554-11	CABLE, SPEAKER (WITH PLUG)	

SECTION 7
ELECTRICAL PARTS LIST

B1

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

RESISTORS
- All resistors are in ohms
- F : nonflammable

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1621-030-A	B1 BOARD, COMPLETE (KV-C2571D) ******************			
	*A-1621-031-A	B1 BOARD, COMPLETE (KV-C2971D) ******************			
		<CONNECTOR>			
B31	*1-565-393-11	CONNECTOR, BOARD TO BOARD			
B32	*1-565-393-11	CONNECTOR, BOARD TO BOARD			
B33	*1-565-393-11	CONNECTOR, BOARD TO BOARD			
B72	*1-568-881-51	PIN, CONNECTOR 6P			
B73	*1-568-878-51	PIN, CONNECTOR 3P			
		<CAPACITOR>			
C301	1-137-031-11	FILM	0.22MF	10%	100V
C302	1-137-031-11	FILM	0.22MF	10%	100V
C303	1-124-122-11	ELECT	100MF	20%	50V
C304	1-137-031-11	FILM	0.22MF	10%	100V
C305	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C306	1-124-902-00	ELECT	0.47MF	20%	50V
C307	1-124-902-00	ELECT	0.47MF	20%	50V
C308	1-124-902-00	ELECT	0.47MF	20%	50V
C309	1-124-902-00	ELECT	0.47MF	20%	50V
C310	1-137-098-11	FILM	0.1MF	10%	100V
C311	1-137-098-11	FILM	0.1MF	10%	100V
C312	1-124-902-00	ELECT	0.47MF	20%	50V
C313	1-124-902-00	ELECT	0.47MF	20%	50V
C314	1-124-902-00	ELECT	0.47MF	20%	50V
C315	1-124-903-11	ELECT	1MF	20%	50V
C316	1-124-927-11	ELECT	4.7MF	20%	50V
C317	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C318	1-124-927-11	ELECT	4.7MF	20%	50V
C319	1-124-927-11	ELECT	4.7MF	20%	50V
C320	1-124-910-11	ELECT	47MF	20%	50V
C321	1-137-027-11	FILM	0.82MF	10%	63V
C322	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C323	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C324	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C325	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C326	1-124-910-11	ELECT	47MF	20%	50V
C327	1-124-910-11	ELECT	47MF	20%	50V
C328	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C329	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C330	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C331	1-137-098-11	FILM	0.1MF	10%	100V
C332	1-137-098-11	FILM	0.1MF	10%	100V
C333	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C335	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C337	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C338	1-137-102-11	FILM	0.022MF	10%	250V
C339	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C340	1-126-103-11	ELECT	470MF	20%	16V
C341	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C342	1-124-903-11	ELECT	1MF	20%	50V
C343	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C344	1-124-903-11	ELECT	1MF	20%	50V
C345	1-137-094-11	FILM	0.047MF	10%	100V
C346	1-137-033-11	FILM	0.33MF	10%	100V
C347	1-137-098-11	FILM	0.1MF	10%	100V
C348	1-137-102-11	FILM	0.022MF	10%	250V
C349	1-137-102-11	FILM	0.022MF	10%	250V
C350	1-124-902-00	ELECT	0.47MF	20%	50V
C351	1-137-102-11	FILM	0.022MF	10%	250V
C352	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C353	1-126-101-11	ELECT	100MF	20%	16V
C354	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C356	1-126-101-11	ELECT	100MF	20%	16V
C357	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C358	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C360	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C361	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C363	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C371	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C372	1-124-477-11	ELECT	47MF	20%	16V
C373	1-124-477-11	ELECT	47MF	20%	16V
C374	1-163-090-00	CERAMIC CHIP	7PF	0.25PF	50V
C375	1-163-090-00	CERAMIC CHIP	7PF	0.25PF	50V
C376	1-124-034-51	ELECT	33MF	20%	16V
C377	1-124-119-00	ELECT	330MF	20%	16V
C378	1-124-034-51	ELECT	33MF	20%	16V
C379	1-163-090-00	CERAMIC CHIP	7PF	0.25PF	50V
C380	1-163-090-00	CERAMIC CHIP	7PF	0.25PF	50V
C381	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C382	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C383	1-163-197-00	CERAMIC CHIP	470PF	5%	50V
C384	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C385	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C386	1-163-377-11	CERAMIC CHIP	100PF	5%	50V
C387	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C388	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C389	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C390	1-124-907-11	ELECT	10MF	20%	50V
C391	1-124-907-11	ELECT	10MF	20%	50V
C392	1-124-907-11	ELECT	10MF	20%	50V
C393	1-126-101-11	ELECT	100MF	20%	16V
C394	1-126-101-11	ELECT	100MF	20%	16V
C395	1-126-101-11	ELECT	100MF	20%	16V
C396	1-126-101-11	ELECT	100MF	20%	16V
C397	1-137-028-11	FILM	1MF	10%	63V
C398	1-124-907-11	ELECT	10MF	20%	50V
C399	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1301	1-163-105-00	CERAMIC CHIP	33PF	5%	50V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

B1

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1302	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C1303	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1304	1-124-907-11	ELECT	10MF	20%	50V
C1305	1-126-101-11	ELECT	100MF	20%	16V
C1306	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1307	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1308	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1309	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1310	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1311	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1312	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1313	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1314	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C1315	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1316	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C1317	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1318	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1319	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1320	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1321	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1322	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1323	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1324	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C1325	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1326	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1327	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C1328	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C1329	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C1330	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1331	1-164-187-11	CERAMIC CHIP	390PF	2%	50V
C1333	1-126-101-11	ELECT	100MF	20%	16V
C1334	1-126-233-11	ELECT	22MF	20%	50V
		<TRIMMER>			
CT301	1-141-418-11	CAP, ADJ			
CT302	1-141-418-11	CAP, ADJ			
		<DIODE>			
D301	8-719-951-22	DIODE IMN10			
D304	8-719-989-26	DIODE DAN212K			
D305	8-719-989-26	DIODE DAN212K			
D307	8-719-106-62	DIODE RD11M-B2			
D308	8-719-989-26	DIODE DAN212K			
D309	8-719-989-26	DIODE DAN212K			
D310	8-719-106-62	DIODE RD11M-B2			
D311	8-719-106-62	DIODE RD11M-B2			
D312	8-719-106-62	DIODE RD11M-B2			
D314	8-719-800-76	DIODE 1SS226			
D318	8-719-800-76	DIODE 1SS226			
D319	8-719-800-76	DIODE 1SS226			
D320	8-719-800-76	DIODE 1SS226			
D321	8-719-105-91	DIODE RD5.6M-B2			
D322	8-719-400-18	DIODE MA152WK			
D330	8-719-989-26	DIODE DAN212K			
D331	8-719-914-44	DIODE DAP202K			
D333	8-719-951-22	DIODE IMN10			
D336	8-719-400-18	DIODE MA152WK			
D340	8-719-800-76	DIODE 1SS226			
D341	8-719-989-26	DIODE DAN212K			

REF.NO.	PART NO.	DESCRIPTION		REMARK
		<DELAY LINE>		
DL301	1-415-613-11	DELAY LINE, Y		
		<FILTER>		
FL301	1-236-620-11	FILTER, LOW PASS		
FL302	1-236-620-11	FILTER, LOW PASS		
FL303	1-236-620-11	FILTER, LOW PASS		
FL305	1-236-164-11	ENCAPSULATED COMPONENT		
		<IC>		
IC301	8-759-517-43	IC TDA4580-V7		
IC302	8-759-980-60	IC TDA8442N3		
IC303	8-759-510-48	IC TDA4660T		
IC304	8-759-510-47	IC TDA4650WP/V4		
IC305	8-759-144-84	IC UPC24M05HF		
IC306	8-759-510-50	IC HCF4052BM		
IC308	8-752-006-12	IC CX20061		
IC310	8-752-337-07	IC CXD2011Q		
IC311	8-759-996-49	IC MB40968PF		
IC312	8-752-338-45	IC CXK1202Q		
IC313	8-752-338-45	IC CXK1202Q		
IC315	8-752-334-55	IC CXD1175AM		
		<COIL>		
L301	1-408-405-00	INDUCTOR	4.7UH	
L303	1-404-554-11	COIL		
L304	1-408-405-00	INDUCTOR	4.7UH	
L305	1-408-402-00	INDUCTOR	2.7UH	
L306	1-408-405-00	INDUCTOR	4.7UH	
L308	1-404-495-00	COIL		
L309	1-408-415-00	INDUCTOR	33UH	
L310	1-408-419-00	INDUCTOR	68UH	
L312	1-404-495-00	COIL		
L313	1-404-554-11	COIL		
L314	1-408-409-00	INDUCTOR	10UH	
L320	1-408-405-00	INDUCTOR	4.7UH	
L321	1-408-405-00	INDUCTOR	4.7UH	
L323	1-408-398-00	INDUCTOR	1.2UH	
L325	1-408-405-00	INDUCTOR	4.7UH	
L326	1-408-421-00	INDUCTOR	100UH	
L327	1-408-402-00	INDUCTOR	2.7UH	
L1301	1-408-425-00	INDUCTOR	220UH	
		<IC LINK>		
PS301⚠	1-532-605-91	LINK, IC 0.4A		
		<TRANSISTOR>		
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q305	8-729-901-06	TRANSISTOR DTA144EK		
Q306	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q307	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q308	8-729-901-00	TRANSISTOR DTC124EK		
Q310	8-729-901-00	TRANSISTOR DTC124EK		
Q311	8-729-901-00	TRANSISTOR DTC124EK		
Q320	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q321	8-729-216-22	TRANSISTOR 2SA1162-G		

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q322	8-729-216-22	TRANSISTOR 2SA1162-G	
Q323	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q324	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q327	8-729-216-22	TRANSISTOR 2SA1162-G	
Q328	8-729-216-22	TRANSISTOR 2SA1162-G	
Q329	8-729-216-22	TRANSISTOR 2SA1162-G	
Q330	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q331	8-729-216-22	TRANSISTOR 2SA1162-G	
Q332	8-729-216-22	TRANSISTOR 2SA1162-G	
Q333	8-729-901-00	TRANSISTOR DTC124EK	
Q334	8-729-901-00	TRANSISTOR DTC124EK	
Q335	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q336	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q337	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q338	8-729-216-22	TRANSISTOR 2SA1162-G	
Q339	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q340	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q341	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q342	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q343	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q344	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q345	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q346	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q347	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q348	8-729-901-00	TRANSISTOR DTC124EK	
Q350	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q352	8-729-216-22	TRANSISTOR 2SA1162-G	
Q353	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q354	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q355	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q356	8-729-216-22	TRANSISTOR 2SA1162-G	
Q357	8-729-216-22	TRANSISTOR 2SA1162-G	
Q358	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q359	8-729-216-22	TRANSISTOR 2SA1162-G	
Q360	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q361	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q362	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q363	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q364	8-729-216-22	TRANSISTOR 2SA1162-G	
Q365	8-729-216-22	TRANSISTOR 2SA1162-G	
Q366	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q367	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q368	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q369	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q370	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q371	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q372	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q373	8-729-901-00	TRANSISTOR DTC124EK	
Q1301	8-729-901-00	TRANSISTOR DTC124EK	
Q1302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1303	8-729-901-00	TRANSISTOR DTC124EK	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR302	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR304	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR305	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR391	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R301	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R302	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R303	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R304	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R305	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R306	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R307	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R309	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R310	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R311	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R312	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R313	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R314	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R316	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R317	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R318	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R319	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R320	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R321	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R322	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R323	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R324	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R325	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R326	1-216-311-00	METAL GLAZE	6.8	5%	1/10W	
R327	1-216-311-00	METAL GLAZE	6.8	5%	1/10W	
R328	1-216-311-00	METAL GLAZE	6.8	5%	1/10W	
R329	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R330	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R331	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R332	1-216-182-00	METAL GLAZE	220	5%	1/8W	
R333	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R335	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R336	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R337	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R338	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R339	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R340	1-216-107-00	METAL GLAZE	270K	5%	1/10W	(KV-C2571D)
	1-216-105-00	METAL GLAZE	220K	5%	1/10W	(KV-C2971D)
R341	1-216-115-00	METAL GLAZE	560K	5%	1/10W	
R342	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R343	1-216-035-00	METAL GLAZE	270	5%	1/10W	(KV-C2571D)
	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	(KV-C2971D)
R344	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R345	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R346	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R347	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R348	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R349	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R350	1-216-184-00	METAL GLAZE	270	5%	1/8W	
R351	1-216-184-00	METAL GLAZE	270	5%	1/8W	
R352	1-216-070-00	METAL GLAZE	7.5K	5%	1/10W	
R353	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R354	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R355	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R357	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R358	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R359	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R361	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R362	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R363	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R364	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R365	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R366	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R367	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R368	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R369	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R370	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R371	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R372	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R373	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R374	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R375	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R376	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R377	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R378	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R379	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R380	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R381	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R382	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R383	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R384	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R385	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R386	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R387	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R388	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R389	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R390	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R391	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R392	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R393	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R394	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R395	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R396	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R397	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R398	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R399	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1301	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1302	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1303	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1305	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1308	1-216-295-00	METAL GLAZE	0	5%	1/10W	(KV-C2571D)
	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	(KV-C2971D)
R1309	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1310	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R1311	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1312	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R1313	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R1314	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1315	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1316	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1319	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1320	1-216-641-11	METAL CHIP	390	0.50%	1/10W	
R1321	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1322	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R1323	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R1324	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1325	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R1326	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1327	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R1328	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1329	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1330	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1331	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1332	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1333	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R1334	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R1335	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R1336	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1337	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R1338	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1339	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R1340	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1341	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R1342	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1343	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R1344	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1345	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R1346	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1347	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1348	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1349	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R1350	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R1351	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R1352	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1353	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1354	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R1355	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1356	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R1357	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1358	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1359	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1360	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R1361	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1362	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R1363	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R1364	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1365	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R1366	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1367	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R1368	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1369	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R1370	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1371	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R1372	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R1373	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R1374	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W	
R1375	1-216-208-00	METAL GLAZE	2.7K	5%	1/8W	
R1376	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1377	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1378	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1379	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1380	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1381	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1382	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1383	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1384	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1385	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R1386	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R1387	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R1388	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1389	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1390	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R1391	1-216-208-00	METAL GLAZE	2.7K	5%	1/8W	
R1392	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R1393	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R1394	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1395	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1396	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1397	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1398	1-216-001-00	METAL GLAZE	10	5%	1/10W	

B1 F A

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1399	1-216-029-00	METAL GLAZE 150 5% 1/10W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV301	1-238-012-11	RES, ADJ, CARBON 1K	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X301	1-567-307-11	OSCILLATOR, CRYSTAL	
X302	1-567-131-00	OSCILLATOR, CRYSTAL	

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*A-1624-008-A F BOARD, COMPLETE (KV-C2571D)
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*A-1624-007-A F BOARD, COMPLETE (KV-C2971D)
****

*4-341-752-01 EYELET

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
F61	*1-580-844-11	PIN, CONNECTOR (POWER)	
F62	*1-580-844-11	PIN, CONNECTOR (POWER)	

<FUSE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
F1601⚠	1-576-231-21	FUSE (H.B.C.) 4A/250V	
	1-533-230-11	HOLDER, FUSE; F1601	

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION	REMARK
S1701⚠	1-571-433-12	SWITCH, PUSH (AC POWER)	

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*A-1632-054-A A BOARD, COMPLETE (KV-C2571D)
****

*A-1632-094-A A BOARD, COMPLETE (KV-C2971D)
****

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
A11	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
A12	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
A13	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
A16	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	(KV-C2971D)
A17	*1-564-886-11	PLUG, CONNECTOR 9P	(KV-C2971D)
A19	*1-564-881-11	PLUG, CONNECTOR 4P	(KV-C2971D)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C101	1-126-233-11	ELECT	22MF	20%	50V	
C102	1-126-103-11	ELECT	470MF	20%	16V	
C104	1-124-910-11	ELECT	47MF	20%	50V	
C106	1-126-233-11	ELECT	22MF	20%	50V	
C108	1-136-165-00	FILM	0.1MF	5%	50V	
C109	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C111	1-124-925-11	ELECT	2.2MF	20%	50V	
C115	1-124-925-11	ELECT	2.2MF	20%	50V	
C127	1-124-122-11	ELECT	100MF	20%	50V	
C128	1-124-910-11	ELECT	47MF	20%	50V	
C129	1-124-910-11	ELECT	47MF	20%	50V	
C138	1-136-165-00	FILM	0.1MF	5%	50V	
C171	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C172	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C177	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C181	1-101-004-00	CERAMIC	0.01MF		50V	(KV-C2971D)

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC103	8-759-979-62	IC PCF8574	

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L100	1-410-683-31	INDUCTOR	560UH	
L101	1-408-225-00	INDUCTOR	3.3UH	
L102	1-408-413-00	INDUCTOR	22UH	
L107	1-408-397-00	INDUCTOR	1UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q116	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q125	8-729-900-89	TRANSISTOR DTC144ES	
Q126	8-729-901-06	TRANSISTOR DTA144EK	
Q181	8-729-120-28	TRANSISTOR 2SC1623-L5L6	(KV-C2971D)

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR230	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR252	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR253	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR255	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR256	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR257	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR258	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R101	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R105	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R107	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R108	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R110	1-249-429-11	CARBON	10K	5%	1/4W	
R111	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R116	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R118	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R128	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R129	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R130	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R157	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R158	1-249-409-11	CARBON	220	5%	1/4W	
R159	1-249-409-11	CARBON	220	5%	1/4W	
R161	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R162	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R163	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R164	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R165	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R167	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R168	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R169	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R181	1-216-049-00	METAL GLAZE	1K	5%	1/10W	(KV-C2971D)
R182	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	(KV-C2971D)
R193	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R194	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R195	1-216-017-00	METAL GLAZE	47	5%	1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R196	1-216-113-00	METAL GLAZE	470K	5%	1/10W	

<TUNER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
TU101⚠	1-465-301-11	TUNER, ET (UV-816(PLL))	

<IF BLOCK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
VIF101	1-466-154-11	IF BLOCK (IFG-389S)	

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1-466-154-11 IFB BOARD (IF BLOCK IFG-389S)
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C9	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C10	1-124-925-11	ELECT	2.2MF	20%	50V	
C11	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C12	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C13	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C14	1-124-034-51	ELECT	33MF	20%	16V	
C17	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C18	1-163-107-00	CERAMIC CHIP	39PF	5%	50V	
C19	1-126-176-11	ELECT	220MF	20%	10V	
C20	1-123-382-00	ELECT	3.3MF	20%	50V	
C21	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C22	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C23	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C24	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C25	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C28	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C29	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C30	1-124-034-51	ELECT	33MF	20%	16V	
C31	1-163-085-00	CERAMIC CHIP	2PF	0.25PF	50V	
C32	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C33	1-124-902-00	ELECT	0.47MF	20%	50V	
C34	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C35	1-124-034-51	ELECT	33MF	20%	16V	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CF1	1-404-801-11	TRAP, CERAMIC	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1	*1-506-913-11	PIN, CONNECTOR 10P	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-759-996-04	IC TDA8341/N6	
IC2	8-759-516-81	IC TDA2545A-V4	

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L2	1-408-410-00	INDUCTOR	12UH	
L3	1-408-406-00	INDUCTOR	5.6UH	
L4	1-408-407-00	INDUCTOR	6.8UH	
L6	1-408-397-00	INDUCTOR	1UH	
L7	1-408-406-00	INDUCTOR	5.6UH	
L8	1-408-406-00	INDUCTOR	5.6UH	

A IFB C

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q2	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q7	8-729-216-22	TRANSISTOR 2SA1162-G	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JC1	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R9	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R10	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R11	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R12	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R13	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R15	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R16	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R17	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R18	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R19	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R20	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R21	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R22	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R23	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R24	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R30	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R31	1-216-208-00	METAL GLAZE	2.7K	5%	1/8W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV1	1-238-550-11	RES, ADJ, CARBON 100K	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T1	1-404-493-31	COIL	
T2	1-404-493-31	COIL	
T5	1-404-493-31	COIL	

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*A-1638-015-A C BOARD, COMPLETE (KV-C2571D)
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*A-1638-013-A C BOARD, COMPLETE (KV-C2971D)
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*4-379-160-01 COVER (REAR LID), CV
*4-379-167-01 COVER (MAIN), CV

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C71	*1-506-371-00	PIN, CONNECTOR 2P	
C72	*1-568-881-51	PIN, CONNECTOR 6P	
C81	*1-568-878-51	PIN, CONNECTOR 3P	
C82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C703	1-102-980-00	CERAMIC	270PF	5%	50V	
C704	1-102-116-00	CERAMIC	680PF	10%	50V	
C705	1-102-978-00	CERAMIC	220PF	5%	50V	
C706	1-102-116-00	CERAMIC	680PF	10%	50V	
C707	1-162-116-00	CERAMIC	680PF	10%	2KV	
C708	1-162-114-00	CERAMIC	0.0047MF		2KV	
C709	1-102-116-00	CERAMIC	680PF	10%	50V	
C710	1-123-947-00	ELECT	10MF	20%	250V	
C711	1-101-880-00	CERAMIC	47PF	5%	50V	
C712	1-102-980-00	CERAMIC	270PF	5%	50V	

REF.NO.	PART NO.	DESCRIPTION				REMARK
C714	1-124-360-00	ELECT	1000MF	20%	16V	
C716	1-162-622-11	CERAMIC	330PF	10%	400V	
C717	1-102-114-00	CERAMIC	470PF	10%	50V	
C718	1-102-114-00	CERAMIC	470PF	10%	50V	
C719	1-102-114-00	CERAMIC	470PF	10%	50V	

<DIODE>

D701	8-719-110-14	DIODE RD9.1ES-B3
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS119
D707	8-719-911-19	DIODE 1SS119
D708	8-719-911-19	DIODE 1SS119
D709	8-719-911-19	DIODE 1SS119
D710	8-719-911-19	DIODE 1SS119
D711	8-719-300-33	DIODE RU-3AM
D713	8-719-911-19	DIODE 1SS119

<JACK>

J701	1-526-990-11	SOCKET, PICTURE TUBE

<COIL>

L704	1-408-415-00	INDUCTOR	33UH

<TRANSISTOR>

Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q703	8-729-906-70	TRANSISTOR BF871
Q704	8-729-200-17	TRANSISTOR 2SA1091-O
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q706	8-729-906-70	TRANSISTOR BF871
Q707	8-729-200-17	TRANSISTOR 2SA1091-O
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q709	8-729-906-70	TRANSISTOR BF871
Q710	8-729-200-17	TRANSISTOR 2SA1091-O

<RESISTOR>

R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R705	1-202-824-00	SOLID	3.3K	10%	1/2W	
R706	1-249-409-11	CARBON	220	5%	1/4W	
R707	1-249-412-11	CARBON	390	5%	1/4W	
R708	1-249-401-11	CARBON	47	5%	1/4W	
R709	1-202-844-00	SOLID	330K	10%	1/2W	
R710	1-215-465-00	METAL	68K	1%	1/4W	
R711	1-249-426-11	CARBON	5.6K	5%	1/4W	
R712	1-249-417-11	CARBON	1K	5%	1/4W	
R713	1-215-471-00	METAL	120K	1%	1/4W	
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R715	1-202-824-00	SOLID	3.3K	10%	1/2W	
R716	1-249-409-11	CARBON	220	5%	1/4W	
R717	1-249-415-11	CARBON	680	5%	1/4W	
R718	1-202-814-11	SOLID	33K	20%	1/2W	
R719	1-249-401-11	CARBON	47	5%	1/4W	
R720	1-249-423-11	CARBON	3.3K	5%	1/4W	
R721	1-202-842-11	SOLID	220K	20%	1/2W	
R722	1-202-848-00	SOLID	680K	10%	1/2W	
R723	1-249-417-11	CARBON	1K	5%	1/4W	
R724	1-202-846-00	SOLID	470K	20%	1/2W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R725	1-202-838-00	SOLID	100K	20%	1/2W	
R726	1-202-824-00	SOLID	3.3K	10%	1/2W	
R727	1-249-409-11	CARBON	220	5%	1/4W	
R728	1-216-347-11	METAL OXIDE	0.68	5%	1W	F
R729	1-249-416-11	CARBON	820	5%	1/4W	
R730	1-249-401-11	CARBON	47	5%	1/4W	
R731	1-249-423-11	CARBON	3.3K	5%	1/4W	
R732	1-249-415-11	CARBON	680	5%	1/4W	
R733	1-249-415-11	CARBON	680	5%	1/4W	
R734	1-249-405-11	CARBON	100	5%	1/4W	
R735	1-215-493-00	METAL	1M	1%	1/4W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-215-491-00	METAL	820K	1%	1/4W	(KV-C2571D)
	1-215-485-00	METAL	470K	1%	1/4W	(KV-C2971D)
R739	1-249-417-11	CARBON	1K	5%	1/4W	

<VARIABLE RESISTOR>

RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV702	1-230-619-11	RES, ADJ, METAL GLAZE 110M
RV703	1-237-749-11	RES, ADJ, CARBON 2200
RV704	1-237-749-11	RES, ADJ, CARBON 2200

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*A-1642-079-A D BOARD, COMPLETE (KV-C2571D)
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*A-1642-085-A D BOARD, COMPLETE (KV-C2971D)
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4-200-001-01	HOLDER, IC
4-201-023-01	SPACER, INSULATING
*4-341-751-01	EYELET
*4-341-752-01	EYELET
*4-368-683-01	SPRING

<CAPACITOR>

C002	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C003	1-124-925-11	ELECT	2.2MF	20%	50V
C004	1-124-120-11	ELECT	220MF	20%	16V
C005	1-124-903-11	ELECT	1MF	20%	50V
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C009	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C010	1-124-120-11	ELECT	220MF	20%	16V
C011	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C013	1-137-098-11	FILM	0.1MF	10%	100V
C014	1-137-098-11	FILM	0.1MF	10%	100V
C015	1-124-902-00	ELECT	0.47MF	20%	50V
C016	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C017	1-137-098-11	FILM	0.1MF	10%	100V
C018	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C019	1-137-094-11	FILM	0.047MF	10%	100V
C021	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C023	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C024	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C027	1-124-910-11	ELECT	47MF	20%	50V
C030	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C031	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C032	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C033	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C034	1-124-907-11	ELECT	10MF	20%	50V
C251	1-124-903-11	ELECT	1MF	20%	50V
C252	1-124-927-11	ELECT	4.7MF	20%	50V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
C253	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C254	1-137-098-11	FILM	0.1MF	10%	100V	
C255	1-124-636-00	ELECT	3300MF	20%	25V	
C261	1-124-903-11	ELECT	1MF	20%	50V	
C262	1-124-927-11	ELECT	4.7MF	20%	50V	
C263	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C264	1-137-098-11	FILM	0.1MF	10%	100V	
C265	1-124-564-11	ELECT	4700MF	20%	25V	
C270	1-137-035-11	FILM	0.47MF	10%	100V	
C274	1-137-035-11	FILM	0.47MF	10%	100V	
C501	1-124-927-11	ELECT	4.7MF	20%	50V	
C502	1-124-927-11	ELECT	4.7MF	20%	50V	
C503	1-137-049-11	FILM	0.015MF	10%	400V	
C504	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C505	1-137-365-11	FILM	0.0015MF	5%	50V	
C506	1-137-102-11	FILM	0.022MF	10%	250V	
C507	1-137-033-11	FILM	0.33MF	10%	100V	
C508	1-137-102-11	FILM	0.022MF	10%	250V	
C509	1-137-098-11	FILM	0.1MF	10%	100V	
C510	1-161-959-00	CERAMIC	22PF	10%	500V	
C511	1-137-413-91	FILM	0.0033MF	10%	100V	
C512	1-137-098-11	FILM	0.1MF	10%	100V	
C513	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C514	1-137-031-11	FILM	0.22MF	10%	100V	
C515	1-124-903-11	ELECT	1MF	20%	50V	
C516	1-108-680-11	MYLAR	0.001MF	10%	100V	
C517	1-124-252-00	ELECT	0.33MF	20%	50V	
C518	1-124-902-00	ELECT	0.47MF	20%	50V	
C519	1-136-173-00	FILM	0.47MF	5%	50V	(KV-C2571D)
	1-136-171-00	FILM	0.33MF	5%	50V	(KV-C2971D)
C520	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	
C521	1-137-098-11	FILM	0.1MF	10%	100V	
C522	1-124-122-11	ELECT	100MF	20%	50V	
C523	1-108-680-11	MYLAR	0.001MF	10%	100V	
C524	1-137-367-91	FILM	0.0033MF	5%	50V	
C525	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C526	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	(KV-C2571D)
	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	(KV-C2971D)
C527	1-137-098-11	FILM	0.1MF	10%	100V	
C531	1-124-190-00	ELECT	680MF	10%	25V	
C532	1-124-122-11	ELECT	100MF	20%	50V	
C533	1-137-096-11	FILM	0.068MF	10%	100V	
C534	1-124-120-11	ELECT	220MF	20%	16V	
C536	1-131-365-00	TANTALUM	10MF	10%	16V	
C537	1-124-903-11	ELECT	1MF	20%	50V	
C538	1-108-680-11	MYLAR	0.001MF	10%	100V	
C539	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	
C540	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C592	1-124-122-11	ELECT	100MF	20%	50V	
C593	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	
C601 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V	
C602 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V	
C603 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V	
C604 ⚠	1-125-318-11	ELECT(BLOCK)	220MF	20%	400V	
C605	1-124-484-11	ELECT	220MF	20%	35V	
C606	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
C607	1-137-028-11	FILM	1MF	10%	63V	
C608	1-124-927-11	ELECT	4.7MF	20%	50V	
C611	1-124-910-11	ELECT	47MF	20%	50V	
C612	1-108-680-11	MYLAR	0.001MF	10%	100V	

REF.NO.	PART NO.	DESCRIPTION				REMARK
C613	1-136-539-11	FILM	0.0022MF	3%	2KV	
C614	1-102-030-00	CERAMIC	330PF	10%	500V	
C615	1-128-142-11	ELECT	1500MF	20%	25V	
C616	1-102-030-00	CERAMIC	330PF	10%	500V	
C617	1-124-122-11	ELECT	100MF	20%	50V	
C618	1-162-115-00	CERAMIC	330PF	10%	2KV	
C619	1-124-556-11	ELECT	2200MF	20%	16V	(KV-C2571D)
	1-128-320-11	ELECT	2200MF	20%	16V	(KV-C2971D)
C620	1-136-173-00	FILM	0.47MF	5%	50V	
C621	1-124-347-00	ELECT	100MF	20%	160V	
C622	1-128-320-11	ELECT	2200MF	20%	16V	
C623	1-124-910-11	ELECT	47MF	20%	50V	
C624	1-124-122-11	ELECT	100MF	20%	50V	
C625	1-124-360-00	ELECT	1000MF	20%	16V	
C626	1-124-907-11	ELECT	10MF	20%	50V	
C627	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C631	1-124-927-11	ELECT	4.7MF	20%	50V	
C632	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C633	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C801	1-126-105-11	ELECT	1000MF	20%	35V	
C802	1-102-030-00	CERAMIC	330PF	10%	500V	
C804	1-123-948-00	ELECT	22MF	20%	250V	
C805	1-162-114-00	CERAMIC	0.0047MF		2KV	
C806	1-137-098-11	FILM	0.1MF	10%	100V	
C807	1-106-395-00	MYLAR	0.15MF	10%	200V	
C810	1-123-024-21	ELECT	33MF		160V	
C811	1-136-113-00	FILM	2MF	5%	200V	
C812	1-124-634-11	ELECT	1MF	20%	250V	
C813	1-102-212-00	CERAMIC	820PF	10%	500V	
C814 ⚠	1-161-731-51	CERAMIC	0.001MF	10%	2KV	
C815	1-136-111-00	FILM	1MF	5%	200V	(KV-C2571D)
	1-136-540-11	FILM	0.82MF	5%	200V	(KV-C2971D)
C817 ⚠	1-136-565-11	FILM	0.015MF	3%	1.4KV	(KV-C2571D)
⚠	1-136-591-11	FILM	0.017MF	3%	1.4KV	(KV-C2971D)
C818 ⚠	1-129-721-51	FILM	0.039MF	10%	630V	
C819 ⚠	1-161-731-51	CERAMIC	0.001MF	10%	2KV	
C820	1-137-046-11	FILM	0.0082MF	10%	400V	
C821 ⚠	1-162-116-51	CERAMIC	680PF	10%	2KV	(KV-C2571D)
⚠	1-162-134-51	CERAMIC	470PF	10%	2KV	(KV-C2971D)
C822	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C823	1-137-043-11	FILM	0.0047MF	10%	400V	
C824	1-102-212-00	CERAMIC	820PF	10%	500V	
C825	1-137-102-11	FILM	0.022MF	10%	250V	
C1601⚠	1-136-518-11	FILM	0.33MF	20%	300V	
C1602⚠	1-136-519-11	FILM	0.47MF	20%	300V	
C1603⚠	1-164-246-61	CERAMIC	0.0022MF	20%	400V	(KV-C2571D)
	1-164-246-51	CERAMIC	0.0022MF	20%	400V	(KV-C2971D)
C1605⚠	1-164-246-61	CERAMIC	0.0022MF	20%	400V	(KV-C2571D)
	1-164-246-51	CERAMIC	0.0022MF	20%	400V	(KV-C2971D)
C1607⚠	1-161-964-61	CERAMIC	0.0047MF		250V	

<FILTER>

CF001	1-577-364-11	VIBRATOR, CERAMIC
CF501	1-567-888-11	OSCILLATOR, CERAMIC

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1	*1-568-881-51	PIN, CONNECTOR 6P	
D2	*1-568-882-51	PIN, CONNECTOR 7P	
D11	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
D12	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
D18	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)(KV-C2971D)	
D21	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
D22	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
D25	*1-568-880-51	PIN, CONNECTOR 5P	
D27	*1-568-878-51	PIN, CONNECTOR 3P	
D31	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
D32	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
D33	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
D41	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
D44	*1-568-881-51	PIN, CONNECTOR 6P	
D45	*1-568-881-51	PIN, CONNECTOR 6P	
D51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
D62	*1-565-395-11	PIN, CONNECTOR 3P	
D65	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
D66	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
D82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
D83	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
D84	*1-580-798-11	CONNECTOR PIN (DY) 6P	
D88	*1-568-878-51	PIN, CONNECTOR 3P (KV-C2971D)	
D801	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D001	8-719-109-97	DIODE RD6.8ES-B2	
D003	8-719-911-19	DIODE 1SS119	
D005	8-719-109-89	DIODE RD5.6ES-B2	
D006	8-719-982-24	DIODE MTZJ-33A	
D007	8-719-982-08	DIODE MTZJ-3.9B	
D009	8-719-109-89	DIODE RD5.6ES-B2	
D010	8-719-921-54	DIODE MTZJ-6.2B	
D011	8-719-921-54	DIODE MTZJ-6.2B	
D012	8-719-911-19	DIODE 1SS119	
D013	8-719-109-97	DIODE RD6.8ES-B2	
D015	8-719-109-97	DIODE RD6.8ES-B2	
D271	8-719-110-31	DIODE RD12ES-B2 (KV-C2571D)	
	8-719-921-88	DIODE MTZJ-13B (KV-C2971D)	
D272	8-719-911-19	DIODE 1SS119	
D501	8-719-911-19	DIODE 1SS119	
D504	8-719-911-55	DIODE U05G	
D506	8-719-800-76	DIODE 1SS226 (KV-C2571D)	
D508	8-719-911-19	DIODE 1SS119	
D509	8-719-911-19	DIODE 1SS119	
D511	8-719-911-55	DIODE U05G	
D512	8-719-911-55	DIODE U05G	
D513	8-719-010-34	DIODE UZ-4.7BSC	
D514	8-719-911-19	DIODE 1SS119 (KV-C2971D)	
D515	8-719-911-19	DIODE 1SS119 (KV-C2971D)	
D601	**⚠8-719-510-63**	**DIODE D4SB60L-F**	
D602	8-719-300-33	DIODE RU-3AM	
D603	8-719-911-55	DIODE U05G	
D604	8-719-911-55	DIODE U05G	
D605	8-719-911-55	DIODE U05G	
D606	8-719-300-33	DIODE RU-3AM	
D607	8-719-300-33	DIODE RU-3AM	
D608	8-719-300-33	DIODE RU-3AM	
D609	8-719-982-24	DIODE MTZJ-33A	
D610	8-719-300-59	DIODE CTU-12S	
D611	8-719-900-26	DIODE ERD29-08J	
D612	8-719-300-59	DIODE CTU-12S	
D613	8-719-302-43	DIODE EL1Z	
D614	8-719-302-43	DIODE EL1Z	
D616	8-719-921-54	DIODE MTZJ-6.2B	
D617	8-719-911-19	DIODE 1SS119	
D618	8-719-109-89	DIODE RD5.6ES-B2	
D619	8-719-982-24	DIODE MTZJ-33A	
D620	8-719-800-76	DIODE 1SS226	
D621	8-719-982-24	DIODE MTZJ-33A	
D622	8-719-911-19	DIODE 1SS119	
D623	8-719-911-19	DIODE 1SS119	
D624	8-719-911-19	DIODE 1SS119	
D630	8-719-921-91	DIODE MTZJ-15A	
D801	8-719-300-33	DIODE RU-3AM	
D802	8-719-300-33	DIODE RU-3AM	
D803	8-719-976-64	DIODE RGP02-17	
D804	8-719-911-55	DIODE U05G	
D805	8-719-911-55	DIODE U05G	
D806	8-719-945-80	DIODE ERC06-15S	
D807	8-719-945-80	DIODE ERC06-15S	
D808	8-719-900-26	DIODE ERD29-08J	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC001	8-759-047-60	IC SDA20560-A012	
IC002	8-759-000-47	IC MC14051BCP	
IC003	8-759-945-58	IC RC4558P	
IC005	8-759-748-56	IC SDA2546	
IC251	8-759-988-94	IC TDA2050	
	4-812-134-00	RIVET NYLON, 3.5; IC251	
IC261	8-759-988-94	IC TDA2050	
	4-812-134-00	RIVET NYLON, 3.5; IC261	
IC501	8-759-970-73	IC TEA2028B	
IC502	8-759-944-57	IC TDA8170	
IC601	8-759-988-95	IC TEA2260	
IC604	8-759-510-52	IC TEA7605	
IC608	8-759-929-62	IC LM7812CT	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L501	1-408-225-00	INDUCTOR 3.3UH	
L601	1-420-872-00	COIL, AIR CORE	
L602	1-410-396-41	FERRITE BEAD INDUCTOR	
L603	1-410-396-41	FERRITE BEAD INDUCTOR	
L604	1-410-671-31	INDUCTOR 47UH	
L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)	
L606	1-412-529-11	INDUCTOR 22UH	
L607	1-410-671-31	INDUCTOR 47UH	
L801	1-459-087-00	COIL,HCC DUST CORE 3.9MMH (KV-C2971D)	
L803	1-459-104-00	COIL, WITH CORE	
L804	1-408-239-00	INDUCTOR 4.7MMH	
L805	1-459-755-11	COIL, HORIZONTAL LINEARITY (KV-C2571D)	
	1-459-907-11	COIL, HORIZONTAL LINEARITY (KV-C2971D)	
L806	1-459-111-00	COIL, DRAM CORE (CDI) (KV-C2571D)	
	1-459-087-00	COIL,HCC DUST CORE 3.9MMH (KV-C2971D)	
L809	1-420-872-00	COIL, AIR CORE	
L810	1-421-982-11	PMC (KV-C2571D)	
	1-421-794-21	TRANSFORMER, FERRITE (PMT) (KV-C2971D)	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
LF1601	⚠1-421-866-12	LFT	
LF1602	⚠1-421-776-21	LFT	
LF1603	⚠1-421-862-11	LFT	
T601	⚠1-450-038-11	S.R.T (KV-C2571D)	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
T601	⚠1-450-037-11	S.R.T (KV-C2971D)	
T602	⚠1-424-277-11	TRANSFORMER, TRIGGER PULSE	
T801	⚠1-437-090-21	HDT	
T802	⚠1-439-416-41	TRANSFORMER ASSY, FLYBACK (NX-1604)	(KV-C2571D)
	⚠1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)	(KV-C2971D)

<IC LINK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
PS601	⚠1-532-984-91	LINK, IC 2A	
PS602	⚠1-532-984-91	LINK, IC 2A	
PS603	⚠1-532-679-91	LINK, IC 0.6A	
PS604	⚠1-532-984-91	LINK, IC 2A	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q001	8-729-901-01	TRANSISTOR DTC144EK	
Q002	8-729-901-01	TRANSISTOR DTC144EK	
Q003	8-729-216-22	TRANSISTOR 2SA1162-G	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q005	8-729-901-01	TRANSISTOR DTC144EK	
Q006	8-729-901-01	TRANSISTOR DTC144EK	
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q251	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q261	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q271	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q502	8-729-216-22	TRANSISTOR 2SA1162-G	
Q505	8-729-140-96	TRANSISTOR 2SD774-34	
Q506	8-729-140-97	TRANSISTOR 2SB734-34	
Q507	8-729-216-22	TRANSISTOR 2SA1162-G	
Q598	8-729-216-22	TRANSISTOR 2SA1162-G	
Q601	8-729-122-03	TRANSISTOR 2SA1220A-P	
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB	
Q603	8-729-122-03	TRANSISTOR 2SA1220A-P	
Q604	8-729-216-22	TRANSISTOR 2SA1162-G	
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF	
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q609	8-729-320-62	TRANSISTOR 2SD789-34	
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q804	8-729-304-50	TRANSISTOR 2SD1941-06	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W	
JR7	1-216-296-00	METAL GLAZE 0 5% 1/8W	
R001	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R002	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R003	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
R004	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R005	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R006	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R007	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R008	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R009	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R010	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R012	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R013	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R014	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R015	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R016	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R017	1-216-689-11	METAL GLAZE 39K 5% 1/10W	
R018	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R019	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R020	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R021	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R022	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R024	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R025	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R026	1-216-182-00	METAL GLAZE 220 5% 1/8W	
R027	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R028	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R029	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R030	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R031	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R032	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R033	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R034	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R035	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R036	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R037	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R038	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R039	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R040	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R041	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R042	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R043	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R044	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R045	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R046	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R047	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R048	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R049	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R050	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R051	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R052	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R053	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R054	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R055	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R056	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R057	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R058	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R059	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R060	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R061	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R062	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R063	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R064	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R065	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R066	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R067	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R068	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R069	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R070	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
R071	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
R072	1-216-222-00	METAL GLAZE 10K 5% 1/8W	
R073	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R075	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R076	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R077	1-216-049-00	METAL GLAZE 1K 5% 1/10W	(KV-C2971D)

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R078	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R079	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R080	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R081	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R083	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R084	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R085	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R086	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R087	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R088	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R093	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R094	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R095	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R096	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R098	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R251	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R252	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R253	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R254	1-216-357-00	METAL OXIDE	4.7	5%	1W	F
R255	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R256	1-216-115-00	METAL GLAZE	560K	5%	1/10W	
R257	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R258	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R259	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R261	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R262	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R263	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R264	1-216-357-00	METAL OXIDE	4.7	5%	1W	F
R265	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R266	1-216-115-00	METAL GLAZE	560K	5%	1/10W	
R267	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R268	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R269	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R270	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R271	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R272	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R273	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R274	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R500	1-216-115-00	METAL GLAZE	560K	5%	1/10W	
R501	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R502	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R503	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R504	1-249-420-11	CARBON	1.8K	5%	1/4W	
R505	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R506	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R509	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R510	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R514	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R515	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R517	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R518	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R519	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R520	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R521	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R522	1-215-469-00	METAL	100K	1%	1/4W	
R523	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R524	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R525	1-216-049-00	METAL GLAZE	1K	5%	1/10W	(KV-C2571D)
R526	1-249-409-11	CARBON	220	5%	1/4W	F
R527	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R528	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R529	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R530	1-249-448-11	CARBON	1.2	5%	1/4W	F
R531	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R532	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R533	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R534	1-216-119-00	METAL GLAZE	820K	5%	1/10W	
R535	1-249-749-00	CARBON	2.2M	5%	1/4W	
R536	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R537	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R538	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R539	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R540	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R541	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R542	1-216-308-00	METAL GLAZE	4.7	5%	1/10W	
R543	1-249-451-11	CARBON	2.2	5%	1/4W	
R544	1-247-745-11	CARBON	330	5%	1/2W	
R545	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R546	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R547	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R548	1-216-349-00	METAL OXIDE	1	5%	1W	F
R549	1-216-454-11	METAL OXIDE	390	5%	2W	F
R550	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R551	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R553	1-215-869-11	METAL OXIDE	1K	5%	1W	
R554	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R555	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R556	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R557	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R558	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R559	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R560	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R561	1-216-107-00	METAL GLAZE	270K	5%	1/10W	
						(KV-C2971D)
R570	1-216-045-00	METAL GLAZE	680	5%	1/10W	(KV-C2971D)
R591	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R592	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R593	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R594	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R597	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R598	1-215-901-00	METAL OXIDE	33K	5%	2W	F
R600	1-249-381-11	CARBON	1	5%	1/4W	
R601	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R603	1-216-469-11	METAL OXIDE	12	5%	3W	F
R604	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R605	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R606	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R607	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	(KV-C2571D)
	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	(KV-C2971D)
R608	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R609	1-216-007-00	METAL GLAZE	18	5%	1/10W	
R610	1-244 941-00	CARBON	680K	5%	1/2W	
R611	1-216-015-00	METAL GLAZE	39	5%	1/10W	
R612	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R613	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R614	1-205-758-11	WIREWOUND	100	10%	10W	F
R616	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R617	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R618	1-216-431-11	METAL OXIDE	560	5%	1W	F
R619	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R620	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R621	1-216-077-00	METAL GLAZE	15K	5%	1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

D **VM** **V**

REF.NO.	PART NO.	DESCRIPTION				REMARK
R622	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R623	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R624	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R625	1-215-865-11	METAL OXIDE	220	5%	1W	F
R626	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R628	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R629	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R631	1-216-465-11	METAL OXIDE	27K	5%	2W	F (KV-C2571D)
R633	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R634	1-216-430-11	METAL OXIDE	390	5%	1W	F
R635	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R636	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R643	1-217-189-21	WIREWOUND	0.12	5%	2W	F
R651	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R653	1-205-758-11	WIREWOUND	100	10%	10W	F
R802	1-249-443-11	CARBON	0.47	5%	1/4W	F
R805	1-249-448-11	CARBON	1.2	5%	1/4W	F
R806	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R807	1-217-778-11	FUSIBLE	1K	5%	1W	F
R809	1-202-821-11	SOLID	1.8K	10%	1/2W	
R810	1-202-818-00	SOLID	1K	10%	1/2W	
R811	1-215-882-00	METAL OXIDE	22	5%	2W	F
R812	1-249-494-11	CARBON	68K	5%	1/2W	(KV-C2571D)
	1-247-281-00	CARBON	51K	5%	1/2W	(KV-C2971D)
R815	1-215-884-11	METAL OXIDE	47	5%	2W	F
R816	1-215-868-00	METAL OXIDE	680	5%	1W	F
R817	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R820	1-249-403-11	CARBON	68	5%	1/4W	
R821	1-247-725-11	CARBON	10K	5%	1/4W	F
R822	1-217-778-11	FUSIBLE	1K	5%	1W	F
R825	1-216-345-11	METAL OXIDE	0.47	5%	1W	F
R826	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R827	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R828	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R829	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R831	1-249-451-11	CARBON	2.2	5%	1/4W	
R1601⚠	1-246-513-75	CARBON	47K	5%	1/4W	
R1602⚠	1-244-945-91	CARBON	1M	5%	1/2W	
R1603⚠	1-217-328-11	WIREWOUND	2.7	10%	7W	F
R1604⚠	1-246-513-75	CARBON	47K	5%	1/4W	
R1605⚠	1-218-265-91	METAL GLAZE	8.2M	5%	1W	
R5501	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R5503	1-216-308-00	METAL GLAZE	4.7	5%	1/10W	(KV-C2571D)
	1-216-001-00	METAL GLAZE	10	5%	1/10W	(KV-C2971D)
R5504	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R5505	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R5506	1-216-075-00	METAL GLAZE	12K	5%	1/10W	(KV-C2971D)

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV501	1-238-013-11	RES, ADJ, CARBON 2.2K
RV502	1-238-016-11	RES, ADJ, CARBON 10K
RV601	1-238-011-11	RES, ADJ, CARBON 470

<SPARK GAP>

REF.NO.	PART NO.	DESCRIPTION
SG801	1-519-422-11	GAP, SPARK

REF.NO. PART NO. DESCRIPTION REMARK

<THERMISTOR>

REF.NO.	PART NO.	DESCRIPTION
THP601⚠	1-808-059-32	THERMISTOR, POSITIVE

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*1-634-193-11 VM BOARD (KV-C2971D)
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C751	1-101-361-00	CERAMIC	150PF	5%	50V
C752	1-137-462-91	FILM	0.018MF	5%	100V
C753	1-137-047-11	FILM	0.01MF	10%	400V
C754	1-102-980-00	CERAMIC	270PF	5%	50V
C757	1-108-692-11	MYLAR	0.01MF	10%	200V
C759	1-124-907-11	ELECT	10MF	20%	50V
C760	1-124-917-11	ELECT	33MF	20%	50V
C761	1-101-006-00	CERAMIC	0.047MF		50V
C762	1-137-047-11	FILM	0.01MF	10%	400V

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L751	1-408-413-00	INDUCTOR	22UH
L770	1-410-665-31	INDUCTOR	15UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q753	8-729-140-97	TRANSISTOR 2SB734-34
Q754	8-729-140-96	TRANSISTOR 2SD774-34

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R751	1-249-418-11	CARBON	1.2K	5%	1/4W	
R752	1-249-426-11	CARBON	5.6K	5%	1/4W	
R753	1-249-414-11	CARBON	560	5%	1/4W	
R754	1-249-434-11	CARBON	27K	5%	1/4W	
R755	1-249-405-11	CARBON	100	5%	1/4W	
R756	1-249-419-11	CARBON	1.5K	5%	1/4W	
R757	1-249-405-11	CARBON	100	5%	1/4W	
R758	1-249-409-11	CARBON	220	5%	1/4W	
R760	1-249-411-11	CARBON	330	5%	1/4W	
R761	1-249-429-11	CARBON	10K	5%	1/4W	
R762	1-247-895-00	CARBON	470K	5%	1/4W	
R763	1-249-429-11	CARBON	10K	5%	1/4W	
R764	1-249-389-11	CARBON	4.7	5%	1/4W	F
R765	1-249-389-11	CARBON	4.7	5%	1/4W	F
R766	1-247-753-11	CARBON	1.2K	5%	1/2W	
R767	1-247-751-11	CARBON	820	5%	1/2W	
R768	1-215-887-00	METAL OXIDE	150	5%	2W	F
R769	1-212-889-00	FUSIBLE	220	5%	1/4W	F

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
VM73	*1-568-878-51	PIN, CONNECTOR 3P
VM88	*1-568-878-51	PIN, CONNECTOR 3P

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*A-1645-022-A V BOARD, COMPLETE (KV-C2571D)
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*A-1645-013-A V BOARD, COMPLETE (KV-C2971D)
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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<CAPACITOR>			
C1	1-126-101-11	ELECT	100MF	20%	16V
C2	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C3	1-124-120-11	ELECT	220MF	20%	16V
C4	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C5	1-124-120-11	ELECT	220MF	20%	16V
C6	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C7	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (KV-C2571D)
C8	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (KV-C2571D)
C9	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (KV-C2571D)
C10	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C11	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C12	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C13	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C14	1-124-927-11	ELECT	4.7MF	20%	50V
C15	1-126-233-11	ELECT	22MF	20%	50V
C16	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C17	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C18	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C26	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C27	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C29	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C32	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C33	1-163-038-00	CERAMIC CHIP	0.1MF		25V
		<CONNECTOR>			
CNV1	*1-565-393-11	CONNECTOR, BOARD TO BOARD			
CNV2	*1-565-393-11	CONNECTOR, BOARD TO BOARD			
		<DIODE>			
D1	8-719-105-91	DIODE RD5.6M-B2			
D3	8-719-104-34	DIODE 1S2836 (KV-C2571D)			
	8-719-914-44	DIODE DAP202K (KV-C2971D)			
D4	8-719-400-18	DIODE MA152WK			
D5	8-719-104-34	DIODE 1S2836 (KV-C2571D)			
	8-719-914-44	DIODE DAP202K (KV-C2971D)			
D6	8-719-400-18	DIODE MA152WK			
D7	8-719-105-52	DIODE RD3.6M-B2			
D9	8-719-106-17	DIODE RD6.8M-B2			
		<IC>			
IC1	8-759-039-18	IC SDA20162-B002			
IC2	8-759-045-54	IC SAA5246P/E/M4A			
IC3	8-759-510-49	IC FCB61C65L-70P			
		<COIL>			
L1	1-408-403-00	INDUCTOR	3.3UH		
L2	1-408-407-00	INDUCTOR	6.8UH		
L3	1-408-407-00	INDUCTOR	6.8UH		
L4	1-408-407-00	INDUCTOR	6.8UH		
		<IC LINK>			
PS1	⚠1-532-679-91	LINK, IC 0.6A			

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<TRANSISTOR>			
Q1	8-729-900-53	TRANSISTOR DTC114EK			
Q2	8-729-920-92	TRANSISTOR 2SD2096-EF			
Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6			
Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6			
Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6			
Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		<RESISTOR>			
JR01	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR02	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR03	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR08	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR09	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR11	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR14	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR17	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR18	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR19	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR20	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR21	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR23	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR24	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR25	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR26	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR201	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR204	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR207	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR208	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR211	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR213	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR219	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR220	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR223	1-216-295-00	METAL GLAZE	0	5%	1/10W
R1	1-218-326-11	METAL GLAZE	470	5%	1/2W
R3	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R4	1-216-025-00	METAL GLAZE	100	5%	1/10W
R5	1-216-047-00	METAL GLAZE	820	5%	1/10W
R6	1-216-001-00	METAL GLAZE	10	5%	1/10W
R7	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R8	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R9	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R02	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R10	1-218-325-11	METAL GLAZE	120	5%	1/4W
R11	1-218-325-11	METAL GLAZE	120	5%	1/4W
R12	1-218-325-11	METAL GLAZE	120	5%	1/4W
R13	1-216-025-00	METAL GLAZE	100	5%	1/10W
R14	1-216-001-00	METAL GLAZE	10	5%	1/10W
R15	1-216-013-00	METAL GLAZE	33	5%	1/10W
R16	1-216-013-00	METAL GLAZE	33	5%	1/10W
R17	1-216-013-00	METAL GLAZE	33	5%	1/10W
R18	1-216-025-00	METAL GLAZE	100	5%	1/10W
R19	1-216-025-00	METAL GLAZE	100	5%	1/10W
R20	1-216-041-00	METAL GLAZE	470	5%	1/10W
R21	1-216-041-00	METAL GLAZE	470	5%	1/10W
R22	1-216-168-00	METAL GLAZE	56	5%	1/8W
R23	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R24	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R25	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R26	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R27	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R28	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R34	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R35	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R40	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R41	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R42	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R44	1-216-295-00	METAL GLAZE	0	5%	1/10W
R46	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R47	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R49	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R50	1-216-296-00	METAL GLAZE	0	5%	1/8W
		<VARIABLE RESISTOR>			
RV1	1-238-012-11	RES, ADJ, CARBON 1K			
		<CRYSTAL>			
X1	1-579-266-31	CRYSTAL VIBRATOR			
X2	1-577-364-11	VIBRATOR, CERAMIC			

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	*1-638-745-11	H2 BOARD (KV-C2571D) ********			
	*1-638-392-11	H2 BOARD (KV-C2971D) ********			
	*4-374-987-01	GUIDE, LIGHT			
	*4-381-686-01	BRACKET (B), LIGHT GUIDE			
		<DIODE>			
D1651	8-719-948-31	DIODE LD-201VR			
	*4-201-076-01	HOLDER, LED; D1651			
D1652	8-719-948-31	DIODE LD-201VR			
	*4-201-076-01	HOLDER, LED; D1652			
D1654	8-719-948-31	DIODE LD-201VR			
	*4-201-076-01	HOLDER, LED; D1654			
		<CONNECTOR>			
H2-2	*1-568-882-51	PIN, CONNECTOR 7P			
		<IC>			
IC1651	8-741-101-75	IC SBX1610-11			
		<RESISTOR>			
R1662	1-249-413-11	CARBON	470	5%	1/4W

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	*1-638-744-11	H1 BOARD (KV-C2571D) ********			
	*1-638-391-11	H1 BOARD (KV-C2971D) ********			
		<CAPACITOR>			
C1651	1-102-106-00	CERAMIC	100PF	10%	50V
C1652	1-102-106-00	CERAMIC	100PF	10%	50V
C1653	1-102-074-00	CERAMIC	0.001MF	10%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1655	1-102-074-00	CERAMIC	0.001MF	10%	50V
		<CONNECTOR>			
H1-1	*1-568-881-51	PIN, CONNECTOR 6P			
H1-02	1-568-678-11	TERMINAL BLOCK, S 3P			
H1-4	*1-568-879-51	PIN, CONNECTOR 4P			
H1-05	1-562-837-11	JACK			
H1-23	*1-568-879-51	PIN, CONNECTOR 4P			
H1-26	*1-568-877-51	PIN, CONNECTOR 2P			
H1-43	*1-564-512-11	PLUG, CONNECTOR 9P			
		<RESISTOR>			
R1651	1-249-413-11	CARBON	470	5%	1/4W
R1652	1-249-413-11	CARBON	470	5%	1/4W
		<SWITCH>			
S1651	1-571-532-21	SWITCH, TACTIL			
S1652	1-571-532-21	SWITCH, TACTIL			
S1653	1-571-532-21	SWITCH, TACTIL			

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	*1-642-923-11	K BOARD *******			
		<CAPACITOR>			
C280	1-124-927-11	ELECT	4.7MF	20%	50V
C281	1-124-927-11	ELECT	4.7MF	20%	50V
C282	1-137-025-91	FILM	0.56MF	10%	63V
C283	1-124-927-11	ELECT	4.7MF	20%	50V
C284	1-124-557-11	ELECT	1000MF	20%	25V
C285	1-124-557-11	ELECT	1000MF	20%	25V
C286	1-101-006-00	CERAMIC	0.047MF		50V
C287	1-137-098-11	FILM	0.1MF	10%	100V
		<IC>			
IC271	8-759-988-94	IC TDA2050			
		<CONNECTOR>			
K3	*1-568-878-51	PIN, CONNECTOR 3P			
K25	*1-568-880-51	PIN, CONNECTOR 5P			
K26	*1-568-877-51	PIN, CONNECTOR 2P			
K27	*1-568-878-51	PIN, CONNECTOR 3P			
		<TRANSISTOR>			
Q203	8-729-900-80	TRANSISTOR DTC114ES			
Q204	8-729-900-80	TRANSISTOR DTC114ES			
Q205	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		<RESISTOR>			
R280	1-249-431-11	CARBON	15K	5%	1/4W
R281	1-249-431-11	CARBON	15K	5%	1/4W
R282	1-249-425-11	CARBON	4.7K	5%	1/4W
R283	1-249-435-11	CARBON	33K	5%	1/4W
R284	1-249-435-11	CARBON	33K	5%	1/4W
R285	1-249-417-11	CARBON	1K	5%	1/4W
R286	1-249-424-11	CARBON	3.9K	5%	1/4W

K **J3** **J1**

REF.NO.	PART NO.	DESCRIPTION				REMARK
R287	1-249-433-11	CARBON	22K	5%	1/4W	
R288	1-216-357-00	METAL OXIDE	4.7	5%	1W	F
R289	1-249-429-11	CARBON	10K	5%	1/4W	
R290	1-247-897-11	CARBON	560K	5%	1/4W	

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*1-642-924-11 J3 BOARD
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C291	1-101-005-00	CERAMIC	0.022MF		50V	

<JACK>

REF.NO.	PART NO.	DESCRIPTION				REMARK
J3	*1-564-518-11	PLUG, CONNECTOR 3P				

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
J3-1	1-537-339-11	TERMINAL BOARD				

<COIL>

REF.NO.	PART NO.	DESCRIPTION				REMARK
L200	1-402-711-11	INDUCTOR, WIDEBAND				

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*A-1651-023-A J1 BOARD, COMPLETE (KV-C2571D)
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*A-1651-038-A J1 BOARD, COMPLETE (KV-C2971D)
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C203	1-124-925-11	ELECT	2.2MF	20%	50V	
C205	1-124-927-11	ELECT	4.7MF	20%	50V	
C206	1-124-925-11	ELECT	2.2MF	20%	50V	
C207	1-124-927-11	ELECT	4.7MF	20%	50V	
C213	1-126-233-11	ELECT	22MF	20%	50V	
C214	1-137-045-11	FILM	0.0068MF	10%	400V	
C217	1-137-045-11	FILM	0.0068MF	10%	400V	
C218	1-137-102-11	FILM	0.022MF	10%	250V	
C219	1-137-102-11	FILM	0.022MF	10%	250V	
C220	1-137-413-91	FILM	0.0033MF	10%	100V	
C221	1-137-413-91	FILM	0.0033MF	10%	100V	
C222	1-137-095-11	FILM	0.056MF	10%	100V	
C223	1-137-095-11	FILM	0.056MF	10%	100V	
C224	1-137-047-11	FILM	0.01MF	10%	400V	
C225	1-136-173-00	FILM	0.47MF	5%	50V	
C226	1-136-173-00	FILM	0.47MF	5%	50V	
C227	1-137-102-11	FILM	0.022MF	10%	250V	
C228	1-137-104-11	FILM	0.033MF	10%	250V	
C229	1-137-049-11	FILM	0.015MF	10%	400V	
C230	1-137-049-11	FILM	0.015MF	10%	400V	
C231	1-124-902-00	ELECT	0.47MF	20%	50V	
C232	1-124-907-11	ELECT	10MF	20%	50V	
C233	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C234	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	

REF.NO.	PART NO.	DESCRIPTION				REMARK
C235	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C236	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C237	1-124-902-00	ELECT	0.47MF	20%	50V	
C238	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C239	1-126-103-11	ELECT	470MF	20%	16V	
C240	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V	
C241	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V	
C242	1-163-033-00	CERAMIC CHIP	0.022MF		50V	
C243	1-163-033-00	CERAMIC CHIP	0.022MF		50V	
C244	1-163-033-00	CERAMIC CHIP	0.022MF		50V	
C245	1-163-033-00	CERAMIC CHIP	0.022MF		50V	
C1401	1-124-907-11	ELECT	10MF	20%	50V	
C1402	1-126-103-11	ELECT	470MF	20%	16V	
C1403	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C1404	1-137-098-11	FILM	0.1MF	10%	100V	
C1405	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C1406	1-137-098-11	FILM	0.1MF	10%	100V	
C1407	1-124-910-11	ELECT	47MF	20%	50V	
C1408	1-124-122-11	ELECT	100MF	20%	50V	
C1409	1-126-233-11	ELECT	22MF	20%	50V	
C1410	1-124-907-11	ELECT	10MF	20%	50V	
C1411	1-124-907-11	ELECT	10MF	20%	50V	
C1412	1-124-910-11	ELECT	47MF	20%	50V	
C1413	1-124-910-11	ELECT	47MF	20%	50V	
C1414	1-124-907-11	ELECT	10MF	20%	50V	
C1415	1-137-098-11	FILM	0.1MF	10%	100V	
C1416	1-137-098-11	FILM	0.1MF	10%	100V	
C1417	1-124-120-11	ELECT	220MF	20%	16V	
C1418	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C1419	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C1425	1-124-902-00	ELECT	0.47MF	20%	50V	
C1426	1-124-902-00	ELECT	0.47MF	20%	50V	
C1427	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C1428	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C1429	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C1430	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C1431	1-126-529-11	ELECT	0.47MF	20%	50V	
C1432	1-124-902-00	ELECT	0.47MF	20%	50V	
C1433	1-124-122-11	ELECT	100MF	20%	50V	
C1436	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1437	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1438	1-137-047-11	FILM	0.01MF	10%	400V	
C1439	1-137-047-11	FILM	0.01MF	10%	400V	
C1440	1-124-907-11	ELECT	10MF	20%	50V	
C1441	1-124-907-11	ELECT	10MF	20%	50V	
C1442	1-137-098-11	FILM	0.1MF	10%	100V	
C1443	1-137-098-11	FILM	0.1MF	10%	100V	
C1444	1-124-910-11	ELECT	47MF	20%	50V	
C1445	1-102-824-00	CERAMIC	470PF	5%	50V	
C1446	1-102-824-00	CERAMIC	470PF	5%	50V	
C1501	1-124-927-11	ELECT	4.7MF	20%	50V	
C1502	1-124-903-11	ELECT	1MF	20%	50V	
C1503	1-137-410-91	FILM	0.001MF	10%	100V	
C1504	1-124-910-11	ELECT	47MF	20%	50V	
C1505	1-137-094-11	FILM	0.047MF	10%	100V	
C1507	1-137-413-91	FILM	0.0033MF	10%	100V	
C1508	1-124-903-11	ELECT	1MF	20%	50V	
C1509	1-124-903-11	ELECT	1MF	20%	50V	

J1

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1511	1-124-927-11	ELECT	4.7MF	20%	50V	
C1512	1-137-045-11	FILM	0.0068MF	10%	400V	(KV-C2571D)
C1513	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C1514	1-137-102-11	FILM	0.022MF	10%	250V	(KV-C2571D)
C1515	1-102-117-00	CERAMIC	820PF	10%	50V	(KV-C2571D)

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1401	1-565-838-11	JACK BLOCK, PIN 2P	
J1-41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
J1-43	*1-564-524-11	PLUG, CONNECTOR 9P	
J1-44	*1-564-527-11	PLUG, CONNECTOR 12P	
J1-51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D201	8-719-110-14	DIODE RD9.1ES-B3	
D202	8-719-110-14	DIODE RD9.1ES-B3	
D205	8-719-110-03	DIODE RD7.5ES-B2	
D206	8-719-110-03	DIODE RD7.5ES-B2	
D1401	8-719-110-03	DIODE RD7.5ES-B2	
D1403	8-719-110-03	DIODE RD7.5ES-B2	
D1404	8-719-110-03	DIODE RD7.5ES-B2	
D1405	8-719-110-03	DIODE RD7.5ES-B2	
D1406	8-719-110-03	DIODE RD7.5ES-B2	
D1407	8-719-921-77	DIODE MTZN-10C	
D1408	8-719-110-14	DIODE RD9.1ES-B3	
D1409	8-719-110-14	DIODE RD9.1ES-B3	
D1410	8-719-110-14	DIODE RD9.1ES-B3	
D1415	8-719-110-03	DIODE RD7.5ES-B2	
D1418	8-719-110-03	DIODE RD7.5ES-B2	
D1419	8-719-110-03	DIODE RD7.5ES-B2	
D1420	8-719-110-03	DIODE RD7.5ES-B2	
D1421	8-719-110-03	DIODE RD7.5ES-B2	
D1422	8-719-110-03	DIODE RD7.5ES-B2	
D1423	8-719-110-03	DIODE RD7.5ES-B2	
D1424	8-719-110-03	DIODE RD7.5ES-B2	
D1425	8-719-110-03	DIODE RD7.5ES-B2	
D1426	8-719-110-03	DIODE RD7.5ES-B2	
D1501	8-719-300-33	DIODE RU-3AM	
D1502	8-719-911-19	DIODE 1SS119	
D1503	8-719-911-19	DIODE 1SS119	
D1504	8-719-911-19	DIODE 1SS119	
D1505	8-719-911-19	DIODE 1SS119	
D1506	8-719-982-33	DIODE MTZJ-36D	
D1507	8-719-911-19	DIODE 1SS119	
D1510	8-719-911-19	DIODE 1SS119	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC201	8-759-013-17	IC TDA6200	
IC1401	8-752-053-17	IC CXA1114P	
IC1402	8-759-946-32	IC TEA2014A	
IC1403	8-759-140-53	IC UPD4053BC	
IC1501	8-759-942-16	IC TEA2031A	

<JACK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
J1402	1-561-534-41	SOCKET 21P	
J1403	1-561-534-41	SOCKET 21P	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q[illegible]04	8-729-216-22	TRANSISTOR 2SA1162-G	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R201	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R202	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R203	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R204	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R205	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R206	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R207	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R208	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R209	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R210	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R211	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R212	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R213	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R214	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R215	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R216	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R217	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R218	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R219	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R220	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R221	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R222	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R223	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R224	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R225	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R226	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R227	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R228	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R229	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R230	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R231	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R232	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R233	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R234	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R235	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R236	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R240	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R241	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R242	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R243	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R244	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R245	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R246	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R247	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R248	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R249	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R250	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R1400	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1401	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1402	1-216-170-00	METAL GLAZE	68	5%	1/8W	
R1403	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1404	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R1405	1-249-434-11	CARBON	27K	5%	1/4W	

J1 IFG

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1407	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1408	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1409	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1410	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1411	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1412	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1413	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1414	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1415	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1416	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1417	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1418	1-247-738-11	CARBON	82	5%	1/2W	F
R1419	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1420	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1421	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1422	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1423	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1424	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1425	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1426	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1427	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R1428	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1429	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1430	1-216-170-00	METAL GLAZE	68	5%	1/8W	
R1431	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1432	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1433	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1434	1-249-393-11	CARBON	10	5%	1/4W	F
R1437	1-249-434-11	CARBON	27K	5%	1/4W	
R1440	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1441	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R1442	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1443	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1444	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1445	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R1446	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1447	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1448	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1449	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1452	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1453	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1454	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R1455	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R1457	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1459	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1460	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R1461	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R1462	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1463	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1464	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1465	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1466	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1467	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1468	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1469	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1470	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1471	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1472	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1473	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1474	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1476	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1477	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1478	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1480	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R1482	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R1483	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R1484	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1485	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1486	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1487	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1488	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1489	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1501	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1502	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1503	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1504	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1505	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1506	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1509	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R1510	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R1511	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1512	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1513	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R1514	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1515	1-216-117-00	METAL GLAZE	680K	5%	1/10W	
						(KV-C2571D)
R1516	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R1517	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1519	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R1520	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
						(KV-C2571D)
	1-216-111-00	METAL GLAZE	390K	5%	1/10W	
						(KV-C2971D)
R1521	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R1550	1-216-349-00	METAL OXIDE	1	5%	1W	F
						(KV-C2971D)
R1556	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV1501	1-238-023-11	RES, ADJ, CARBON 470K
RV1502	1-238-016-11	RES, ADJ, CARBON 10K
RV1503	1-238-017-11	RES, ADJ, CARBON 22K
RV1504	1-238-012-11	RES, ADJ, CARBON 1K
RV1505	1-238-023-11	RES, ADJ, CARBON 470K
RV1506	1-238-017-11	RES, ADJ, CARBON 22K
RV1507	1-238-009-11	RES, ADJ, CARBON 220
RV1508	1-238-016-11	RES, ADJ, CARBON 10K
RV1509	1-238-023-11	RES, ADJ, CARBON 470K

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*A-1654-005-A IFG BOARD, COMPLETE (KV-C2571D)
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*A-1654-008-A IFG BOARD, COMPLETE (KV-C2971D)
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C2	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C3	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C4	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C5	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C6	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C7	1-124-903-11	ELECT	1MF	20%	50V	
C8	1-124-907-11	ELECT	10MF	20%	50V	
C9	1-130-471-00	MYLAR	0.001MF	5%	50V	
C10	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C11	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	
C12	1-136-298-00	FILM	0.0033MF	2%	100V	
C13	1-124-477-11	ELECT	47MF	20%	16V	
C14	1-124-477-11	ELECT	47MF	20%	16V	
C15	1-124-477-11	ELECT	47MF	20%	16V	
C16	1-124-477-11	ELECT	47MF	20%	16V	
C17	1-124-907-11	ELECT	10MF	20%	50V	
C18	1-137-047-11	FILM	0.01MF	10%	400V	
C19	1-137-047-11	FILM	0.01MF	10%	400V	
C20	1-126-233-11	ELECT	22MF	20%	50V	
C21	1-126-233-11	ELECT	22MF	20%	50V	
C22	1-137-098-11	FILM	0.1MF	10%	100V	
C23	1-137-031-11	FILM	0.22MF	10%	100V	
C24	1-124-034-51	ELECT	33MF	20%	16V	
C25	1-137-102-11	FILM	0.022MF	10%	250V	
C26	1-137-094-11	FILM	0.047MF	10%	100V	
C27	1-124-903-11	ELECT	1MF	20%	50V	
C28	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C29	1-124-903-11	ELECT	1MF	20%	50V	
C30	1-124-903-11	ELECT	1MF	20%	50V	
C31	1-137-047-11	FILM	0.01MF	10%	400V	
C32	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C33	1-163-081-00	CERAMIC CHIP	0.22MF		25V	
C34	1-137-031-11	FILM	0.22MF	10%	100V	
C35	1-124-907-11	ELECT	10MF	20%	50V	
C36	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	
C37	1-124-477-11	ELECT	47MF	20%	16V	
C38	1-124-477-11	ELECT	47MF	20%	16V	
C39	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

<FILTER>

REF.NO.	PART NO.	DESCRIPTION
CDA1	1-404-751-11	DISCRIMINATOR, CERAMIC
CDA2	1-404-750-11	DISCRIMINATOR, CERAMIC
SFT1	1-527-840-00	FILTER, CERAMIC
SFT2	1-527-839-00	FILTER, CERAMIC

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D3	8-719-400-18	DIODE MA152WK

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC1	8-759-003-90	IC TBA129
IC2	8-759-003-90	IC TBA129
IC3	8-759-030-48	IC TDA6600-2
IC4	8-759-513-48	IC TDA2595/V9

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
IFG13	*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L1	1-408-410-00	INDUCTOR	12UH
L2	1-408-410-00	INDUCTOR	12UH
L3	1-410-064-11	INDUCTOR	2.7MMH
L4	1-408-421-00	INDUCTOR	100UH
L5	1-408-421-00	INDUCTOR	100UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q2	8-729-901-00	TRANSISTOR DTC124EK
Q3	8-729-216-22	TRANSISTOR 2SA1162-G
Q4	8-729-901-00	TRANSISTOR DTC124EK

IFG

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR8	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR10	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R1	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R2	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R3	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R5	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R6	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R7	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R9	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R11	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R12	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R13	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R15	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R16	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R17	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R18	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R19	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R20	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R22	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R24	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R25	1-216-077-00	METAL GLAZE	15K	5%	1/10W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV1	1-238-016-11	RES, ADJ, CARBON 10K
RV2	1-238-019-11	RES, ADJ, CARBON 47K

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MISCELLANEOUS
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<KV-C2571D>

REF.NO.	PART NO.	DESCRIPTION
	⚠ 1-426-372-11	COIL, DEMAGNETIZATION
	⚠ 1-451-311-21	DEFLECTION YOKE (Y25FXA)
	1-452-032-00	MAGNET, DISK; 10MM ϕ
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ
	1-504-146-11	SPEAKER (5X11CM)
	1-544-767-11	SPEAKER (13CM)
	⚠ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)
	1-696-554-11	CABLE, SPEAKER (WITH PLUG)
V901	⚠ 8-733-231-05	PICTURE TUBE (A59JWC61X)

<KV-C2971D>

REF.NO.	PART NO.	DESCRIPTION
	⚠ 1-426-398-11	COIL, DEMAGNETIZATION
	⚠ 1-451-313-21	DEFLECTION YOKE (Y29FXA)
	1-452-032-00	MAGNET, DISK; 10MM ϕ
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ
	⚠ 1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)
	1-504-146-11	SPEAKER (5X11CM)
	1-544-767-11	SPEAKER (13CM)
	⚠ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)
	1-696-554-11	CABLE, SPEAKER (WITH PLUG)
V901	⚠ 8-733-831-05	PICTURE TUBE (A68JYL61X)

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ACCESSORIES AND PACKING MATERIALS

<KV-C2571D>

REF.NO.	PART NO.	DESCRIPTION	REMARK
	A-1678-037-A	BOX ASSY, WOOFER	
	4-200-974-11	MANUAL, INSTRUCTION (GERMAN/ENGLISH/ FRENCH/DUTCH/ITALIAN/PORTUGUESE)	
	*4-202-040-01	INDIVIDUAL CARTON	
	*4-202-042-01	CUSHION (LOWER) (ASSY)	
	*4-396-065-01	BAG, PROTECTION	

<KV-C2971D>

REF.NO.	PART NO.	DESCRIPTION	REMARK
	A-1678-053-A	BOX ASSY, WOOFER	
	4-200-973-11	MANUAL, INSTRUCTION (GERMAN/ENGLISH/ FRENCH/DUTCH/ITALIAN)	
	*4-202-005-01	INDIVIDUAL CARTON	
	*4-202-009-01	CUSHION (BOTTOM)	
	*4-384-027-01	BAG, PROTECTION	

REMOTE COMMANDER

REF.NO.	PART NO.	DESCRIPTION	REMARK
	1-465-796-11	CONTROL UNIT, REMOTE (RM-816)	
	4-031-670-01	COVER, POCKET (FOR RM-816)	

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